## ACP

	10	20	30	40
GPLGS	ADTLERVTKI	IVDRLGVDEA	DVKLEASFKE	DLGADSLDVV
	50	60	70	76
	ELVMELEDEF	DMEISDEDAE	KIATVGDAVN	YIQNQQ

## **ACPS**

10	20	30	40
AYGIGLDIT	ELKRIASMAG	RQKRFAERIL	TRSELDQYYE
50	60	70	80
LSEKRKNEFL	AGRFAAKEAF	SKAFGTGIGR	QLSFQDIEIR
90	100	110	120
KDQNGKPYII 121 S	CTKLSQAAVH	VSITHTKEYA	AAQVVIERLS

FIG. 1

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Aquifex
                       ----MIGVDIVKNERIKDALERFGDKFLDRIYTKRELEYCY----AHCDFLPCLAARWAG
Chlamydophila
                      MEIIHIGTDIIEISRIREAIATHGNRLLNRIFTEAEQKYCL---EKTDPIPSFAGRFAG
                       ----MIGIDIVSIARIEKCVKRFKMKFLERFLSPSEIVLCK----DKSS---SIAGFFAL
Helicobacter
                    1
                       -MIHGIGVDLIEIDRIQALYSKQ-PKLVERILTKNEQHKFNN-FTHEQRKIEFLAGRFAT
-MIVGVGIDVLEVERVP-----EKFAERILGESEKRLF---LTRKRRR-EFIAGRFAL
Staphylococcus
                    1
Thermotoga
                      MAILGLGTDIVEIARIEAVIARSGDRLARRVLSDNEWAIWK---THHQPV-RFLAKRFAV
Escherichia
                    1
Rickettsia
                    1
                       -MLIGVGTDIVQIPRIEKILNIYQELFAKKILALKELKQFT--LLNKTNHATFLAKRFSA
                      MSIIGVGIDVAEVERFGA-ALERTPALAGRLFLESELLLP----GGERRGVASLAARFAA
-MIIGVGIDIVEIERFVS-WTHNVRLLR-RFFHQEEIVDF----FKNHMRAQFLATRFAA
Streptomyces
Treponema
Bacillus
                       -MIYGIGLDITELKRIAS-MAGRQKRFAERILTRSELDQYY--ELSEKRKNEFLAGRFAA
-MIIGIGSDLIDITRYGKVIERHGERFLDRIFTAAERAKAERRAKNEKMVVATYAKRFAA
Bradyrhizobium
Mycobacterium
                      MGIVGVGIDLVSIPDFAEQVSQPGTVFM-TIFTPGERRDAS---VKSSSAVCHLAARWAV
consensus
                            G D
                                                        E
                    1
                      KEAVLKAFYTEFKIFL-----RFKEIEILGNRGRPPTVVINRE--GVEEILKNY----E
Aquifex
                  53
                      KEAVAKALGTGIGSVV-----AWKDIEVFKVSHGPEVLLPS----HVYAKIGIS----K
KEACSKALQVGIGKEL-----SFLDIKISKSPKNAPLITLSK---EKMDYFNIQ----S
Chlamydophila
                  57
                  50
Helicobacter
                  58
                      KEAFSKALGTGLGKHV-----AFNDIDCYNDELGKPKI-----DYEGF----I
Staphylococcus
                      KEAFFKALGTGLNGH-----SFTDVEFLESN-GKPVLCVH-----KDFGFFN---Y KEAAAKAFGTGIRNGL----AFNQFEVFNDELGKPRLRLWGEALKLAEKLGVA----N
Thermotoga
                  49
57
Escherichia
                      KEAVSKAFGVGIGRGI-----NFKDITILNDNLGKPTVEISS---HYTNKLAPF----N
Rickettsia
                  58
                  56
                      KEALAKALGAPAG--L-----LWTDAEVWVEAGGRPRLRVTGTVAARAAELGVA----S
Streptomyces
                  54
Treponema
                      KEAFGKALGTGLRN-M-----ELRNIRVCQNGWGKPRLEVYGAAQAMLAATGGT----H
Bacillus
                  57
                      KEAFSKAFGTGIGRQL-----SFQDIEIRKDQNGKPYIICT-----KLSQA----A
                      KEACSKALGTGIRRGV-----WWRDMGVVNLPGGRPTMQLTGGALARLQALTPDGFEAR
Bradyrhizobium
                  60
Mycobacterium
                  57
                      KEAVIKAWSGSRFAQRPMLPENIHRDIEVVNDMWGRPRVRLTG---AIAKHLTDV----T
                  61
consensus
                      KEA KA
                      61.......70.......80........90........100.......110......
                  61
                      VIVSLSHERDYSVAVAYIKKKS-----
                 101
Aquifex
                      VILSISHCKEYATATAIALA-----
Chlamydophila
                 103
                      LSASISHDAGFAIAVVVVSSSNE--------
Helicobacter
                  97
Staphylococcus
                  97
                      VHVSISHTEHYAMSQVVLEK-----SAF------
                  91
Thermotoga
                      AHVSLSH-DRFAVALVVLEKRKGDIIVEGDESFLRKRFEVLERSVEGWEIETSLPPFTLK
                 107
Escherichia
                      MHVTLADERHYACATVIIES-----
                      IHLSLSDDYPICIAFAIIESNC-----
Rickettsia
                 105
Streptomyces
                      WHVSLSHDAGIASAVVIAEG------
                 104
                      IQVSLTHEREVASAIVIIEGEPL-----
Treponema
                 103
                      VHVSITHTKEYAAAQVVIERLSS-----
Bacillus
                  99
Bradyrhizobium
                      IDVSITDDWPLAQAFVIISAVPLAKS-----
                 114
                      IHVSLTHEGDIAAAVVILEVL---------
Mycobacterium
                 110
consensus
                 121
                      121......130......140.......150.......160......170......
Aquifex
Chlamydophila
Helicobacter
Staphylococcus
                      KLLESSGCRLVRYGNILIGE
Thermotoga
Escherichia
Rickettsia
                      -----
Streptomyces
Treponema
Bacillus
Bradyrhizobium
Mycobacterium
consensus
                 181
                 181
                      181.....190......
```

		Atom									
		Туре	Residue		<u> </u>	<u> </u>	Z	<u> 00CC</u>	<u>B</u>	MOL	
MOTA	1	CB	ALA	2	21.270	43.877	0.867	1 00	54.04		
ATOM	2	С	ALA	.2	21.146	41.525	-0.081		53.17	Al Al	
MOTA	3	0	ALA	2	20.651	40.668	0.655		53.21	A1	
MOTA	4	N	ALA	2	19.058	42.876	0.195		54.07	Al	
ATOM	5	CA	ALA	2	20.526	42.932	-0.136		53.98	A1	
MOTA	6	. <b>N</b>	TYR	3	22.204	41.299	-0.869		51.45	Al	
MOTA	7	CA	TYR	3	22.910	40.017	-0.878		49.41	λl	
ATOM	8	CB	TYR	3	23.783	39.899	-2.129		52.10	Al	
MOTA	9	CG	TYR	3	22.990	39.823	-3.410		55.89	Al	
ATOM	10	CD1		3	21.766	39.131	-3.444		57.46	Al	
ATOM	11	CE1	TYR	3	21.050	38.984	-4.611		58.14	Al	
MOTA	12	CD2	TYR	3	23.477	40.371	-4.606	1.00	56.50	Al	
ATOM	13	CE2	TYR	3	22.757	40.222	-5.804	1.00	58.53	Al	
MOTA	14	CZ	TYR	3	21.536	39.525	-5.785	1.00	58.85	A1	
MOTA	15	OH	TYR	3	20.764	39.383	-6.913	1.00	60.32	Al	
MOTA	16	C	TYR	3	23.793	39.899	0.393	1.00	46.52	Al	
MOTA	17	0	TYR	3	24.622	40.790	0.704	1.00	45.60	Al	
ATOM	18	N	GLY	4	23.609	38.782	1.102		42.70	Al	
MOTA	19	CA	GLY	4	24.320	38.543	2.338		37.45	A1	
ATOM	20	C	GLY	4	24.041	37.193	2.962	1.00	33.70	A1	
ATOM	21	0	GLY	4	23.431	36.317	2.340		32.64	Al	
ATOM	22	N	ILE	5	24.512	37.019	4.197		30.10	Al	
ATOM	23	CA	ILE	5	24.326	35.759	4.880		27.52	Al	
ATOM	24	CB	ILE	5	25.660	34.841	4.938		25.29	Al	
ATOM	25	CG2	ILE	5	26.176	34.529	3.511		25.87	A1	
MOTA	26		ILE	5	26.785	35.531	5.686		23.40	Al	
ATOM	27	CD1	ILE	5	28.015	34.655	5.920		20.98	Al	
ATOM	28	C	ILE	5	23.890	36.156	6.277		26.57	A1	
ATOM ATOM	29	0	ILE	5	24.113	37.278	6.689		24.85	A1	
	30	N	GLY	6	23.263	35.229	6.984		25.44	Al	
ATOM ATOM	31 32	CA	GLY	6	22.811	35.540	8.317		26.60	A1	
ATOM		C	GLY	6	22.852	34.284	9.166		26.44	A1	
ATOM	33 34	и 0	GLY LEU	6 7	22.550	33.151	8.686		26.78 26.41	A1	
ATOM	35	CA	LEU	7	23.239	34.472	10.421			Al	
ATOM	36	CB	LEU	7	23.319	33.374	11.363		26.97	Al	
ATOM	37	CG	LEU	7	24.764	33.021	11.639		27.07 25.72	A1 - A1	
ATOM	38		LEU	7	24.948 24.329	31.919 30.596	12.694 12.115		24.08	· A1	
ATOM	39		LEU	7	26.486				24.38		
ATOM	40	C	LEU	7	22.667	31.751 33.741	12.993 12.657		28.25	A1 A1	
ATOM	41	o	LEU	7	22.874	34.834	13.154		28.97	Al	
ATOM	42	и	ASP	8	21.858	32.861	13.225		29.53	Al	
ATOM	43	CA	ASP.	8	21.272	33.229	14.505		31.00	Al	
ATOM	44	CB	ASP	8	19.978	34.022	14.354		32.06	Al	
ATOM	45	CG	ASP	8	19.332	34.330	15.737		35.48	Al	
ATOM	46		ASP	8	18.624	33.437	16.301		35.96	Al	
ATOM	47		ASP	8	19.556	35.443	16.293		34.80	Al	
ATOM	48	C	ASP	8	20.994	32.043	15.374	•	31.76	Al	
ATOM	49	Ö	ASP	8	20.379	31.114	14.917		32.34	Al	
		-		•	-0.3.3	72.224	/-/				

ATOM	50		ILE	9	21.471	32.072	16.618	1.00 32.83	2.1
MOTA	51		ILE	9	21.247	31.006	17.589	1.00 34.13	A1 A1
MOTA	52		ILE	9	22.570	30.453	18.178	1.00 34.00	A1
ATOM	53			9	22.296	29.317	19.164	1.00 33.87	Al
ATOM	54	CG		9	23.444	29.887	17.067	1.00 34.24	A1
ATOM	55		LILE	9	24.893	29598	17.566	1.00 35.11	A1
MOTA	56		ILE	9	20.398	31.673	18.684	1.00 35.95	Al
MOTA	57	0	ILE	9	20.706	32.779	19.152	1.00 35.83	Al
ATOM	58	И	THR	10	19.276	31.027	19.009	1.00 37.57	Al
MOTA	59	CA	THR	10	18.319	31.517	20.012	1.00 38.92	Al
MOTA	60	CB	THR	10	16.963	31.852	19.371	1.00 39.79	Al
ATOM	61	OG1		10	17.071	33.055	18.597	1.00 42.44	Al
MOTA	62	CG2		10	15.920	32.030	20.438	1.00 41.04	A1
MOTA	63	C	THR	10	18.074	30.409	21.053	1.00 38.98	Al
ATOM	64	0	THR	. 10	17.705	29.273	20.707	1.00 38.16	Al
ATOM	65	N	GLU	11	18.303	30.762	22.311	1.00 39.04	Al
ATOM	66	CA	GLU	11	18.128	29.873	23.458	1.00 39.06	Al
ATOM	67	CB	GLU	11	18.697	30.562	24.706	1.00 40.96	Al
ATOM	68	CG	GLU	11	20,091	31.151	24.425	1.00 44.69	A1
ATOM	69	CD	GLU	11	20.728	31.947	25.576	1.00 47.14	Al
ATOM	70		GLU	11	20.543	33.201	25.664	1.00 47.18	Al
ATOM	71	OE2		11	21.434	31.302	26.391	1.00 49.53	Al
ATOM	72	C.	GLU	11	16.634	29.571	23.662	1.00 37.28	Al
ATOM	73	0	GLU	11	15.819	30.487	23.748	1.00 35.93	Al
ATOM	74	N	LEU	12	16.296	28.287	23.677	1.00 35.49	Al
ATOM	75	CA	LEU	12	14.929	27.816	23.913	1.00 36.05	Al
ATOM	76	CB	LEU	12	14.929	26.279	24.073	1.00 36.45	A1
ATOM	77	CG	LEU	12	14.421	25.319	23.017	1.00 37.15	Al
ATOM	78		LEU	12	14.235	23.997	23.690	1.00 37.38	A1
ATOM	79		LEU	12	13.096	25.759	22.439	1.00 37.94	Al
ATOM	80	C	LEU	12	14.254	28.379	25.179	1.00 35.86	Al
ATOM	81	0	LEU	12	13.059	28.765	25.161	1.00 36.02	Al
ATOM	82	N	ALA	13	14.998	28.370	26.289	1.00 35.85	Al
ATOM	83	CA	ALA	· 13	14.455	28.819	27.586	1.00 37.01	Al
ATOM	84	СВ	ALA	13	15.543	28.726	28.723	1.00 37.35	Al
ATOM	85	C	ALA	13	13.903	30.209	27.518	1.00 37.53	Al
ATOM	86	0	ALA	13	12.893	30.486	28.116	1.00 37.21	Al
ATOM ATOM	87	И	ARG	14	14.550	31.087	26.772	1.00 38.91	Al
ATOM	88	CA	ARG	14	14.041	32.440	26.670	1.00 40.95	Al
ATOM	89 90	CB CG	ARG	14	15.044	33.320	25.940	1.00 41.35	A1
ATOM	91		ARG	14	16.138	33.808	26.853	1.00 43.91	A1
ATOM	92	NE CD	ARG	14	16.385	35.294	26.635	1.00 44.07	, A1
ATOM	93	CZ	ARG	14	17.184	35.440	25.443	1.00 44.98	A1
ATOM	94		ARG ARG	14	17.473	36.595	24.859	1.00 45.66	A1
ATOM	95		ARG	14	17.033	37.741	25.356	1.00 45.42	Al
ATOM	96	C	ARG	14	18.192	36.586	23.746	1.00 45.86	Al
ATOM	97	Ö	ARG	14	12.679	32.515	25.986	1.00 42.15	Al
ATOM	98	И	ILE	14	11.887	33.419	26.262	1.00 41.07	Al
ATOM	99	CA	ILE	15	12.398	31.578	25.077	1.00 43.69	. Al
ATOM	100	CB	ILE	15	11.088	31.604	24.409	1.00 45.37	Al
ATOM	101		ILE	15	11.022	30.801	23.055	1.00 44.97	Al
ATOM	102		ILE	15 15	9.634	30.994	22.442	1.00 44.72	Al
ATOM	103		ILE	15	12.119	31.219	22.074	1.00 44.89	Al
ATOM	104	CDI	ILE	15	11.983	32.621	21.518	1.00 45.11	Al
ATOM	105	0	ILE	15	10.125	30.881	25.330	1.00 46.54	Al
ATOM	106	N	ALA		8.955	31.170	25.337	1.00 46.55	Al
	~~~	44	~~~	16	10.613	29.897	26.073	1.00 48.62	Al

MOTA	107	CA	ALA	16	9.710	29.148	26.928	1.00 51.99	A1
ATOM	108	CB	ALA	16	10.375	27.891	27.447	1.00 51.52	A1
ATOM	109	C	ÀLA	16	9.247	30.000	28.084	1.00 54.29	Al
MOTA	110	0	ALA	16	8.119	29.878	28.544	1.00 55.04	A1
MOTA	111	N	SER	17	10.122	30.877	28.545	1.00 56.66	Al
MOTA	112	CA	SER	17	9.797	31.752	29.653	1.00 58.77	A1
ATOM	113	CB	SER	17	11.064	32.402	30.169	1.00 58.15	A1
ATOM	114	oG	SER	17	11.864	31.409	30.758	1.00 58.99	Al
ATOM	115	C	SER	17	8.807	32.836	29.283	1.00 60.67	A1
MOTA	116	0	SER	17	9.034	34.013	29.587	1.00 61.61	A1
ATOM	117	И	MET	18	7.719	32.463	28.620	1.00 61.88	Al
ATOM	118	CA	MET	18	6.711	33.457	28.252	1.00 63.20	A1
MOTA MOTA	119 120	CB CG	MET MET	18 18	6.411	33.397	26.760	1.00 63.45	A1
ATOM	121	SD	MET	18	7.629	33.473	25.982	1.00 63.73	A1
ATOM	122	CE	MET	18	8.431 8.882	34.930 35.588	26.488	1.00 64.97	A1
ATOM	123	C	MET	18	5.434	33.205	24.735	1.00 64.08	A1
ATOM	124	0	MET	18	4.815	34.127	28.994 29.506	1.00 63.31	A1
ATOM	125	Ŋ	ALA	19	5.054	31.933	29.308	1.00 63.03 1.00 64.24	A1
ATOM	126	CA	ALA	19	3.827	31.469	29.670	1.00 64.24	Al Al
ATOM	127	CB	ALA	19	4.036	31.349	31.198	1.00 65.18	A1
ATOM	128	C	ALA	19	2.685	32.425	29.352	1.00 65.24	A1
ATOM	129	o	ALA	19	1.899	32.199	28.419	1.00 65.24	A1
ATOM	130	И	GLY	20	2.606	33.507	30.110	1.00 64.64	A1
MOTA	131	CA	GLY	20	1.548	34.460	29.857	1.00 64.00	A1
ATOM	132	C	GLY	20	1.725	35.165	28.534	1.00 63.02	Al
ATOM	133	o	GLY	20 .	0.789	35.248	27.741	1.00 64.04	A1
ATOM	134	N	ALA	21	2.943	35.638	28.288	1.00 61.60	A1
ATOM	135	CA	ALA	21	3.280	36.392	27.085	1.00 59.98	Al
ATOM	136	CB	ALA	21	4.525	37.225	27.378	1.00 59.25	Al
ATOM	137	C	ALA	21	3.453	35.663	25.725	1.00 59.06	Al
ATOM	138	0	ALA	21	3.425	36.310	24.675	1.00 58.46	Al
MOTA	139	N	GLN	22	3.612	34.339	25.722	1.00 57.78	Al
ATOM	140	CA	GLN	·22	3.861	33.642	24.461	1.00 56.31	Al
ATOM	141	CB	GLN	22	4.120	32.160	24.707	1.00 56.11	Al
ATOM	142	CG	GLN	22	4.701	31.498	23.464	1.00 54.61	A1
MOTA	143	CD	GLN	22	5.154	30.063	23.674	1.00 54.11	Al
MOTA	144	OE1	GLN	22	4.417	29.108	23.357	1.00 52.66	Al
MOTA	145	NE2	GLN	22	6.384	29.901	24.212	1.00 52.51	Al
MOTA	146	C	GLN	22	2.877	33.786	23.305	1.00 55.31	Al
MOTA	147	0	GLN	22	3.279	33.751	22.136	1.00 54.38	Al
MOTA	148	N	LYS	23	1.599	33.950	23.625	1.00 54.54	A1
MOTA	149	CA	LYS	23	0.587	34.102	22.597	1.00 53.74	· Al
MOTA	150	CB	LYS	23	-0.816	34.126	23.192	1.00 54.52	Al
ATOM	151	CG	LYS	23	-1.908	34.428	22.158	1.00 55.45	Al
ATOM	152	CD	LYS	23	-3.280	34.438	22.820	1.00 56.61	A1
.ATOM	153	CE	LYS	23	-4.342	35.093	21.932	1.00 57.55	Al
ATOM	154	NZ	LYS	23	-4.631	34.292	20.715	1.00 58.20	A1
ATOM	155	C	LYS	23	0.795	35,387	21.819	1.00 52.72	A1
ATOM	156	0	LYS	23	0.775	35.377	20.578	1.00 52.28	A1
ATOM	157	N	ARG	24	0.966	36.494	22.530	1.00 50.67	Al
ATOM	158	CA	ARG	24	1.151		, 21.811	1.00 49.83	Al
ATOM	159	CB	ARG	24	1.027	38.929	22.746	1.00 52.03	Al
ATOM	160	CG	ARG	24	-0.442	39.179	23.140	1.00 54.86	Al
ATOM	161	Œ	ARG	24	-0.689	40.544	23.779	1.00 57.57	A1
ATOM	162	NE	ARG	24	-0.708	41.626	22.799	1.00 59.50	A1
ATOM	163	CZ	ARG	24	0.284	42.496	22.638	1.00 60.97	A1

ATOM	164	NH1	ARG	24	1.378	42.411	23.403	1.00 61.46	Al
ATOM	165	NH2	ARG	24	0.179	43.448	21.714	1.00 61.28	Al
ATOM	166	C	ARG	24	2.473	37.735	21.070	1.00 47.89	Al
ATOM	167	0	ARG	24	2.596	38.349	20.014	1.00 47.33	Al
MOTA	168	N	PHE	25	3.456	37.039	21.622	1.00 45.04	Al
ATOM	169	CA	PHE	25	4.748	36.965	20.992	1.00 42.60	Al
ATOM	170	CB	PHE	25	5.757	36.301	21.927	1.00 41.19	Al
ATOM	171	CG	PHE	25	7.107	36.071	21.294	1.00 39.72	A1
MOTA	172	CD1		25	7.945	37.133	21.010	1.00 39.39	A1
MOTA	173	CD2	PHE	25	7.538	34.791	21.010	1.00 39.13	A1
MOTA	174	CE1	PHE	25	9.198	36.924	20.460	1.00 39.53	A1
MOTA	175	CE2	PHE	25	8.776	34.578	20.469	1.00 39.73	A1
ATOM	176	CZ	PHE	25	9.616	35.648	20.187	1.00 39.05 1.00 41.96	Al Al
ATOM	177	C	PHE	25	4.617	36.143	19.701	1.00 41.96	Al
MOTA	178	0	PHE	25	5.236	36.459 35.078	18.664 19.771	1.00 40.74	Al
ATOM	179	И	ALA	26	3.824	34.237	18.597	1.00 40.74	Al
ATOM	180	CA	ALA ALA	26 26	3.635 2.786	32.993	18.948	1.00 39.28	Al
ATOM	181 182	CB C	ALA	26	2.765	35.034	17.463	1.00 40.94	Al
ATOM	183	0	ALA	26	3.380	34.940	16.293	1.00 40.38	Al
MOTA	184	И	GLU	27	1.940	35.802	17.821	1.00 40.51	Al
MOTA MOTA	185	CA	GLU	27	1.198	36.598	16.870	1.00 41.68	Al
ATOM	186	CB	GLU	27	-0.003	37.269	17.537	1.00 44.31	Al
ATOM	187	CG	GLU	27	-1.076	36.311	18.027	1.00 49.27	A1
ATOM	188	CD	GLU	27	-2.143	36.968	18.903	1.00 52.19	A1
ATOM	189		GLU	27	-1.939	38.106	19.431	1.00 53.39	A1
ATOM	190	OE2		27	-3.196	36.314	19.081	1.00 54.05	A1
ATOM	191	c	GLU	27	2.059	37.672	16.245	1.00 40.55	Al
ATOM	192	Ō	GLU	27	1.819	38.065	15.125	1.00 41.26	A1
ATOM	193	N	ARG	28	3.043	38.172	16.971	1.00 39.83	Al
ATOM	194	CA	ARG	28	3.907	39.216	16.433	1.00 39.44	A1
ATOM	195	CB	ARG	28	4.712	39.897	17.558	1.00 39.37	A1
ATOM	196	CG	ARG	28	5.203	41.267	17.199	1.00 40.38	A1
MOTA	197	CD	ARG	28	6.175	41.850	18.199	1.00 42.61	Al
MOTA	198	NE	ARG	28	6.730	43.108	17.671	1.00 45.42	A1
ATOM	199	CZ	ARG	28	6.148	44.304	17.774	1.00 46.09	Al
MOTA	200	NHI	LARG	28	4.980	44.429	18.417	1.00 46.55	A1
MOTA	201	NH2		28	6.699	45.370	17.184	1.00 46.78	Al
MOTA	202	C	ARG	28	4.901	38.628	15.428	1.00 38.17	Al
MOTA	203	0	ARG	28	5.202	39.233	14.423	1.00 37.71	Al
MOTA	204	N	ILE	29	5.344	37.416	15.728	1.00 37.47	Al
MOTA	205	CA	ILE	29	6.364	36.675	14.989	1.00 37.22 1.00 38.04	, Al
MOTA	206	CB	ILE	29	7.140	35.756			Al
MOTA	. 207		2 ILB	29	8.353				Al
MOTA	208		LILE	29	7.740				Al
ATOM	209		LILE		8.363				Al
ATOM	210	C	ILE	29	5.937 6.646				Al
MOTA	211	0	ILE	29	4.760				Al
MOTA	212	N	LEU	30 30	4.285				Al
ATOM ATOM	213 214	CA CB		30	3.627				A1
ATOM	214			30	4.509				Al
ATOM	216		1 LEU	30	3.813				A1
ATOM	217		2 LEU	30	5.894				A1
ATOM	218		LEU	30	3.322				A1
ATOM	219		LEU	-30	2.576				A1
ATOM	220		THR	31	3.338				A1
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ATOM	221	CA	THR	31	2.369	34.702	9.662	1.00 33.03	A1
MOTA	222	CB	THR	31	2.847	34.320	8.247	1.00 31.42	Al
ATOM	223	OG1	THR	31	3.043	32.896	8.180	1.00 28.99	Al
MOTA	224	CG2	THR	31	4.120	35.093	7.903	1.00 28.16	Al
ATOM	225	C	THR	31	1.108	33.863	9.996	1.00 33.87	A1
ATOM	226	0	THR	31	1.130	33.022	10.924	1.00 32.70	A1
ATOM	227	N	ALA	32	0.042	34.064	9.211	1.00 34.24	A1
ATOM	228	CA	ALA	32	-1.226	33.341	9.401	1.00 34.08	A1
ATOM	229	CB	ALA	32	-2.259	33.767	8.340	1.00 34.11	Al
ATOM	230	C	ALA	32	-1.056	31.816	9.352	1.00 33.63	A1
ATOM	231	0	ALA	32	-1.506	31.094	10.258	1.00 33.02	A1
ATOM	232	И	SER	33	-0.421	31.306	8.303	1.00 33.11	A1
ATOM ATOM	233	CA	SER	33	-0.279	29.854	8.239	1.00 32.41	A1
ATOM	234 235	CB	SER	33	0.204	29.411	6.884	1.00 31.81	A1
ATOM	235	OG C	SER SER	33	1.557	29.762	6.706	1.00 33.87	A1
ATOM	237	0	SER	33	0.675	29.300	9.296	1.00 32.48	Al
ATOM	238	и	GLU	33 34	0.516	28.143	9.700	1.00 32.22	A1
ATOM	239	CA	GLU	34	1.653 2.591	30.100	9.736	1.00 31.47	A1
ATOM	240	CB	GLU	34	3.806	29.616 30.539	10.750	1.00 32.82	A1
ATOM	241	CG	GLU	34	4.740	30.339	10.893	1.00 32.38	A1
ATOM	242	CD	GLU	34	5.726	31.605	9.705 9.716	1.00 33.34 1.00 34.32	A1
ATOM	243	OE1		34	5.342	32.743	10.078	1.00 34.32	Al
ATOM	244	OE2	GLU	34	6.877	31.352	9.349	1.00 36.26	A1
ATOM	245	c	GLU	34	1.893	29.482	12.104	1.00 34.55	A1
ATOM	246	o	GLU	34	2.113	28.522	12.821	1.00 32.32	A1
ATOM	247	N	LEU	35	1.042	30.445	12.407	1.00 33.23	A1 A1
ATOM	248	CA	LEU	35	0.296	30.458	13.639	1.00 34.42	A1
ATOM	249	CB	LEU	35	-0.535	31.724	13.721	1.00 35.37	A1
ATOM	250	CG	LEU.	35	-0.151	33.010	14.442	1.00 36.15	Al
ATOM	251	CD1	LEU	35	-1.425	33.899	14.346	1.00 34.90	Al
ATOM	252	CD2	LEU	35	0.223	32.778	15.929	1.00 34.49	A1
ATOM	253	C	LEU	35	-0.643	29.237	13.764	1.00 34.43	Al
ATOM	254	0	LEU	35	-0.785	28.684	14.855	1.00 33.54	A1
ATOM	255	N	ASP	36	-1.286	28.862	12.650	1.00 33.79	Al
ATOM	256	CA	ASP	36	-2.192	27.710	12.582	1.00 33.66	Al
ATOM	257	CB	ASP	36	-2.764	27.472	11.161	1.00 33.07	A1
ATOM	258	CG	ASP	36	-3.803	28.533	10.727	1.00 34.30	A1
MOTA	259		ASP	3.6	-4.410	29.136	11.612	1.00 33.98	A1
ATOM	260	OD2	ASP	36	-4.048	28.748	9.492	1.00 33.61	A1
ATOM	261	C	ASP	36	-1.397	26.468	12.935	1.00 34.25	A1
ATOM	262	0	ASP	36	,-1.900	25.564	13.582	1.00 34.41	, A1
ATOM	263	N	GLN	37	-0.152	26.398	12.494	1.00 35.24	Al
ATOM	264	CA	GLN	37	0.652	25.202	12.793	1.00 36.17	Al
ATOM	265	CB	GLN	37	1.939	25.189	11.972	1.00 35.40	A1
ATOM	266	CG	GLN	37	1.671	25.154	10.533	1.00 38.15	Al
ATOM	267	CD	GLN	37	2.956	25.046	9.717	1.00 40.58	A1
ATOM	268		GLN	37	3.812	24.195	10.009	1.00 43.09	A1
ATOM	269	NE2		37	3.095	25.889	8.696	1.00 37.84	A1
ATOM ATOM	270 271	C	GLN	37	1.003	25.162	14.254	1.00 35.48	A1
ATOM	271	O N	GLN	37	1.002	24.095	14.874	1.00 35.73	A1
ATOM	272	N	TYR	38	1.269	26.346	14.790	1.00 34.97	A1
ATOM	274	CA CB	TYR	38	1.669	26.510	16.176	1.00 34.85	A1
ATOM	275	CG	TYR	38	2.143	27.952	16.370	1.00 33.46	Al
ATOM	2.76	CD1	TYR	38	2.273	28.458	17.781	1.00 32.73	A1
ATOM	2.76 277			38	1.208	29.115	18.405	1.00 32.82	Al
	4//	CE1	IIK	38	1.348	29.645	19.682	1.00 34.21	A1

MOTA	278	CD2	TYR	38	3.463	28.341	18.465	1.00 31.00	Al
MOTA	279	CE2	ŢYR	38	3.620	28.873	19.744	1.00 33.46	Al
MOTA	280	CZ	TYR	38	2.577	29.522	20.346	1.00 34.00	Al
MOTA	281	OH	TYR	38	2.761	30.111	21.570	1.00 37.22	Al
ATOM	282	С	TYR	38	0.564	26.117	17.130	1.00 36.15	A1
ATOM	283	0	TYR	38	0.804	25.382	18.089	1.00 35.82	Al
MOTA	284	N	TYR	39	-0.662	26.546	16.849	1.00 37.88	Al
ATOM	285	CA	TYR	39	-1.782	26.204	17.725	1.00 39.63	Al
ATOM	286	CB	TYR	39	-3.037	27.013	17.357	1.00 39.03	Al
ATOM	287	CG	TYR	39	-2.913	28.438	17.829	1.00 39.74	A1
ATOM	288	CD1		39	-2.533	28.713	19.154	1.00 40.42	Al
MOTA	289	CE1	TYR	39	-2.338	30.051	19.600	1.00 41.11	A1
ATOM	290	CD2	TYR	39	-3.108	29.523	16.956	1.00 39.84	Al
ATOM	291	CE2	TYR	39	-2.923	30.852	17.384	1.00 39.73	Al
ATOM	292	CZ	TYR	39	-2.538	31.112	18.721	1.00 41.24	Al
ATOM	293	ОН	TYR	3.9	-2.435	32.412	19.217	1.00 41.44	A1
ATOM	294	C	TYR	39	-2.062	24.720	17.762	1.00 40.63	A1
ATOM	295	0	TYR	39	-2.604	24.206	18.747	1.00 42.50	A1
ATOM	296	N	ALA	40	-1.665	24.017	16.716	1.00 41.27	Al
ATOM	297	CA	ALA	40	-1.847	22.573	16.649	1.00 41.86	Al
ATOM	298	CB	ALA	40	-1.759	22.100	15.196	1.00 41.73	Al
ATOM	299	C	ALA	40	-0.789	21.837	17.473	1.00 42.96	Al
ATOM	300	ō	ALA	40	-0.908	20.618	17.703	1.00 43.10	A1
ATOM	301	N	LEU	41	0.252	22.539	17.927	1.00 42.81	A1
ATOM	302	CA	LEU	41	1.301	21.833	18.650	1.00 42.81	Al
ATOM	303	CB	LEU	41	2.665	22.466	18.339	1.00 42.41	A1
ATOM	304	CG	LEU	41	3.140	22.361	16.875	1.00 43.61	Al
ATOM	305		LEU	41	4.395	23.238	16.638	1.00 41.82	Al
ATOM	306		LEU	41	3.425	20.898	16.550	1.00 42.33	A1
MOTA	307	C	LEU	41	1.126	21.698	20.170	1.00 42.93	A1
ATOM	308	ō	LEU	41	0.363	22.432	20.778	1.00 41.85	Al
ATOM	309	И	SER	42	1.859	20.733	20.778		
ATOM	310	CA	SER	42	1.885	20.733	22.188	1.00 43.71 1.00 44.05	Al
ATOM	311	CB	SER	42	2.659			1.00 43.73	A1
ATOM	312	OG	SER	42	4.019	19.246 19.536	22.461 22.239	1.00 43.73	A1 . A1
ATOM	313	C	SER	42	2.684				
ATOM	314	0	SER	42	3.416	21.644 22.292	22.763 22.028	1.00 44.62	Al
ATOM	315	и		43					A1
ATOM	316		GLU		2.603	21.884	24.068	1.00 45.05	A1
		CA		43	3.332	23.019	24.607	1.00 45.94	A1
MOTA MOTA	317	CB CG	GLU	43	2.971	23.259	26.071	1.00 48.60	A1
	318		GLU	43	1.444	23.613	26.267	1.00 52.40	Al
ATOM	319	CD	GLU	43	0.995	24.887	25.505	1.00 54.53	Al
ATOM	320		GLU	43	1.696	25.925	25.631	1.00 55.13	. A1
ATOM	321		GLU	43	-0.062	24.845	24.800	1.00 55.25	Al
ATOM	322	C	GLU	43	4.848	23.048	24.432	1.00 44.63	A1
ATOM	323	0	GLU	43	5.401	24.132	24.209	1.00 44.60	Al
ATOM	324	И	ALA	44	5.523	21.902	24.531	1.00 43.03	Al
ATOM	325	CA	ALA	44	6.981	21.880	24.350	1.00 42.00	Al
ATOM	326	CB	ALA	44	7.581	20.509	24.772	1.00 42.03	Al
ATOM	327	C	ALA	44	7.253	22.130	22.850	1.00 41.00	Al
ATOM	328	0	ALA	44	8.188	22.836	22.483	1.00 40.92	A1
ATOM	329	И	ARG	45	6.415	21.548	21.996	1.00 39.12	Al
ATOM	330	CA	ARG	45	6.575	21.735	20.588	1.00 38.05	Al
MOTA	331	CB	ARG	45	5.695	20.782	19.825	1.00 39.12	Al
ATOM	332	CG	ARG	45	6.067	19.368	20.050	1.00 42.02	Al
ATOM	333	CD	ARG	45	7.460	19.066	19.559	1.00 45.74	Al
ATOM	334	NE	ARG	45	7.673	19.650	18.247	1.00 49.41	A1

ATOM	335	CZ	ARG	45	8.773	19.489	17.522	1.00 51.27	7.1
ATOM	336	NH1	ARG	45	9.776	18.733	17.986	1.00 52.41	A1 A1
ATOM	337	NH2	ARG	45	8.884	20.129	16.351	1.00 51.44	Al
ATOM	338	C	ARG	45	6.305	23.174	20.185	1.00 36.52	Al
ATOM	339	0	ARG	45	6.871	23.626	19.211	1.00 35.97	Al
ATOM	340	И	LYS	46	5.480	23,896	20.929	1.00 34.62	Al
ATOM	341	CA	LYS	46	5.249	25.294	20.610	1.00 34.21	Al
ATOM	342	CB	LYS	46	4.171	25.906	21.474	1.00 33.14	A1
ATOM	343	CG	LYS	46	2.738	25.639	21.025	1.00 35.37	Al
ATOM	344	CD	LYS	46	1.803	26.461	21.945	1.00 35.71	Al
ATOM	345	CE	LYS	46	0.356	26.339	21.546	1.00 37.07	Al
ATOM	346	NZ	LYS	46	-0.432	27.391	22.270	1.00 37.31	A1
ATOM	347	C	LYS	46	6.524	26.132	20.803	1.00 33.86	A1
ATOM ATOM	348	и 0	LYS	46	6.812	27.016	20.004	1.00 32.48	A1
ATOM	349 350	CA	ASN ASN	47	7.278	25.865	21.871	1.00 33.74	A1
ATOM	351	CB	ASN	47	8.477	26.646	22.098	1.00 34.19	Al
ATOM	352	CG	ASN	47 47	9.005	26.388	23.480	1.00 35.68	Al
ATOM	353	OD1		47	7.983 7.324	26.734	24.497	1.00 39.69	A1
ATOM	354	ND2	-	47	7.802	27.795 25.867	24.363	1.00 41.09	A1
ATOM	355	C	ASN	47	9.553	26.396	25.513	1.00 38.62	A1
ATOM	356	o	ASN	47	10.276	27.324	21.065 20.693	1.00 32.89	. A1
ATOM	357	N	GLU	48	9.656	25.138	20.629	1.00 30.94 1.00 31.98	Al
ATOM	358	CA	GLU	48	10.642	24.769	19.638	1.00 31.98	Al
ATOM	359	CB	GLU	48	10.629	23.269	19.413	1.00 32.98	A1 A1
MOTA	360	CG	GLU	48	11.585	22.498	20.276	1.00 33.31	AL
ATOM	361	CD	GLU	48	11.124	21.078	20.397	1.00 44.62	A1
ATOM	362	OE1	GLU	48	10.860	20.463	19.319	1.00 45.75	Al
MOTA	363	OE2	GLU	48	11.009	20.603	21.568	1.00 46.32	Al
ATOM	364	C	GLU	48	10.346	25.455	18.301	1.00 31.14	Al
MOTA	365	0	GLU	48	11.241	26.036	17.676	1.00 31.58	A1
ATOM	366	И	PHE	49	9.087	25.344	17.892	1.00 28.29	Al
ATOM	367	CA	PHE	49	8.574	25.895	16.666	1.00 26.99	A1
ATOM	368	CB	PHE	49	7.059	25.633	16.566	1.00 26.28	Al
ATOM	369	CG	PHE	49	6.461	26.100	15.286	1.00 25.52	Al
ATOM	370		PHE	49	6.587	25.339	14.120	1.00 26.28	A1
ATOM	371		PHE	49	5.823	27.313	15.212	1.00 24.67	A1
ATOM	372		PHE	49	6.071	25.798	12.878	1.00 25.84	Al
ATOM	373		PHE	49	5.303	27.773	13.960	1.00 26.00	A1
ATOM ATOM	374 375	cz	PHE	49	5.440	26.994	12.800	1.00 24.44	A1
ATOM	376	0	PHE	49	8.827	27.399	16.672	1.00 26.54	A1
ATOM	377	И	LEU	49	9.327	27.949	15.700	1.00 24.86	Al
ATOM	378	CA	LEU	50 50	8.504	28.034	17.794	1.00 25.76	Al
ATOM	379	СВ	LEU	50 50	8.667 8.013	29.452	17.929	1.00 26.80	A1
ATOM	380	CG	LEU	50	7.184	29.905	19.205	1.00 26.47	Al
ATOM	381		LEU	50	6.188	31.173 31.085	19.245	1.00 26.96	A1
ATOM	382		LEU	50	6.427	31.298	18.097	1.00 28.27	A1
ATOM	383	c	LEU	50	10.132	29.899	20.634 17.920	1.00 26.53 1.00 27.42	Al
ATOM	384	Ō	LEU	50	10.477	30.897	17.298	1.00 27.42	A1
ATOM	385	N	ALA	51	11.008	29.164	18.577	1.00 26.72	A1
ATOM	386	CA	ALA	51	12.399	29.586	18.589	1.00 26.72	A1 A1
ATOM	387	CB	ALA	51	13.161	28.786	19.583	1.00 24.82	A1
ATOM	388	C	ALA	51	13.009	29.369	17.187	1.00 26.71	A1
ATOM	389	0	ALA	51	13.871	30.115	16.785	1.00 26.84	A1
ATOM	390	N	GLY	52	12.564	28.333	16.475	1.00 26.28	Al
ATOM	391	CA	GLY	52	13.120	28.049	15.160	1.00 27.58	Al

MOTA	392	C	GLY	52	12.723	29.141	14.167	1.00 27.43	
ATOM	393	0	GLY	52	13.537	29.588	13.353	1.00 27.16	A1
MOTA	394	N	ARG	53	11.468	29.577	14.259	1.00 27.16	A1
MOTA	395	CA	ARG	53	10.963	30.626	13.382	1.00 27.33	Al
ATOM	396	CB	ARG	53	9.416	30.743	13.508	1.00 28.47	A1
MOTA	397	CG	ARG	5 <b>3</b>	8.635	29.550	12.916	1.00 28.93	Al
ATOM	398	CD	ARG	53	8.966	29.452	11.454	1.00 31.06	Al
ATOM	3.99	NE	ARG	53	7.949	28.823	10.619	1.00 33.23	A1
ATOM	400	CZ	ARG	53	7.853	27.509	10.417	1.00 34.72	A1
ATOM	401	NHI	L ARG	53	8.712	26.691	11.017	1.00 33.41	A1
ATOM	402	NH2	2 ARG	53	6.959	27.037	9.551	1.00 33.41	A1
ATOM	403	C	ARG	53	11.647	31.989	13.724	1.00 32.33	A1
ATOM	404	0	ARG	5 <b>3</b>	11.960	32.741	12.810	1.00 27.67	Al
MOTA	405	N	PHE	54	11.847	32.294	15.011	1.00 27.77	Al
MOTA	406	CA	PHE	54	12.470	33.544	15.395	1.00 25.41	A1
ATOM	407	CB	PHE	54	12.419	33.737	16.937	1.00 25.84	Al
ATOM	408	CG	PHE	54	13.035	35.038	17.412	1.00 26.15	A1
ATOM	409	CD1	PHE	54	14.326	35.068	17.855	1.00 25.57	Al
ATOM	410	CD2	PHE	54	12.335	36.247	17.285	1.00 23.37	A1
ATOM	411	CE1	PHE	54	14.962	36.279	18.163	1.00 27.42	A1
MOTA	412	CE2	PHE	54	12.931	37.477	17.589	1.00 27.70	A1
ATOM	413	CZ	PHE	54	14.245	37.507	18.023	1.00 27.70	A1
ATOM	414	C	PHE	54	13.918	33.499	14.883	1.00 25.07	Al
ATOM	415	0	PHE	54	14.416	34.481	14.315	1.00 25.07	A1
ATOM	416	N	ALA	55	14.589	32.354	15.061	1.00 24.66	A1
ATOM	417	CA	ALA	55	15.960	32.232	14.566		Al
ATOM	418	CB	ALA	55	16.565	30.896	14.966	1.00 24.79 1.00 23.37	A1
ATOM	419	C	ALA	55	16.000	32.384	13.036	1.00 23.37	Al
ATOM	420	0	ALA	5 <b>5</b>	16.761	33.188	12.506	1.00 25.92	Al
ATOM	421	N	ALA	56	15.201	31.612	12.332	1.00 23.65	A1
ATOM	422	CA	ALA	56	15.178	31.705	10.873	1.00 23.88	A1
ATOM	423	CB	ALA	56	14.184	30.759	10.314	1.00 23.88	A1
ATOM	424	С	ALA	56	14.885	33.113	10.391	1.00 24.13	Al
ATOM	425	0	ALA	56	15.510	33.572	9.449	1.00 24.13	Al
ATOM	426	N	LYS	57	13.974	33.816	11.060	1.00 24.31	A1
ATOM	427	CA	LYS	57	13.613	35.168	10.647	1.00 25.22	A1
ATOM	428	CB	LYS	57	12.217	35.576	11.224	1.00 25.22	A1
ATOM	429	CG	LYS	57	11.047	34.738	10.632	1.00 24.59	A1
ATOM	430	CD	LYS	57	9.646	35.359	10.830	1.00 24.83	A1
MOTA	431	CE	LYS	57	8.552	34:359	10.417	1.00 24.83	A1
MOTA	432	NZ	LYS	57	7.084	34.830	10.452	1.00 25.32	A1
ATOM	433	C	LYS	57	14.633	36.214	11.026	1.00 26.40	A1
MOTA	434	0	LYS	57	14.705	37.245	10.355	1.00 26.87	. A1
MOTA	435	N	GLU	58	15.351	36.000	12.147	1.00 26.28	` A1
ATOM	436	CA	GLU	58	16.384	36.941	12.581	1.00 26.02	A1
ATOM	437	CB	GLU	58	16.871	36.639	13.992	1.00 27.63	A1
ATOM	438	CG	GLU	58	15.889	37.012	15.062	1.00 30.56	Al
ATOM	439	CD	GLU	58	15.832	38.528	15.219	1.00 30.36	Al
ATOM	440	OE1	GLU	58	16.876	39.092	15.600	1.00 32.92	A1
ATOM	441	OE2	GLU	58	14.775	39.151	14.929	1.00 34.30	A1
ATOM	442	C	GLU	58	17.553	36.768	11.611	1.00 33.64	A1
ATOM	443	0	GLU	58	18.159	37.739	11.168		A1
ATOM	444	N	ALA	59	17.865	35.529	11.276	1.00 24.66	A1
ATOM	445	CA	ALA	59	18.928	35.272	10.327	1.00 24.85	A1
ATOM	446	CB	ALA	59	19.128	33.764	10.327	1.00 23.99	A1
ATOM	447	C	ALA	59	18.606	35.912	8.952	1.00 23.99	A1
ATOM	448	0	ALA	59	19.459	36.540		1.00 24.17	A1
						30.340	8.315	1.00 21.87	Al

MOTA	449	N	PHE	60	17.370	35.737	8.505	1.00 24.88	Al
MOTA	450	CA	PHE	60	16.968	36.251	7.218	1.00 25.44	Al
MOTA	451	CB	PHE	60	15.521	35.895	6.879	1.00 24.96	A1
MOTA	452	CG	PHE	60	15.037	36.546	5.586	1.00 26.06	A1
MOTA	453	CD1		60	15.193	35.904	4.363	1.00 25.13	Al
MOTA	454	CD2		60	14.474	37.831	5.598	1.00 25.99	Al
MOTA	455		PHE	60	14.804	36.507	3.170	1.00 24.37	Al
MOTA	456	CE2	PHE	60	14.078	38.450	4.391	1.00 25.81	Al
ATOM	457	CZ	PHE	60	14.251	37.766	3.185	1.00 24.62	A1
ATOM	458	C	PHE	60	17.114	37.770	7.207	1.00 27.27	A1
ATOM	459	0	PHE	60	17.691	38.352	6.242	1.00 27.79	A1
ATOM	460	N	SER	61	16.627	38.413	8.260	1.00 27.40	A1
MOTA	461	CA	SER	61	16.721	39.846	8.294	1.00 29.82	A1
ATOM	462	CB	SER	61	16.005	40.461	9.533	1.00 29.61	A1
MOTA	463	og	SER	61	16.679	40.092	10.727	1.00 31.10	A1
ATOM	464	C	SER	61	18.191	40.242	8.294	1.00 31.09	A1
ATOM	465	0	SER	61	18.517	41.316	7.832	1.00 31.02	A1
ATOM	466	N	LYS	62	19.071	39.389	8.819	1.00 32.53 1.00 34.06	A1 A1
ATOM	467	CA	LYS	62	20.508	39.723	8.828		
ATOM	468	CB.	LYS	62 63	21.307	38.729 38.975	9.698 11.242	1.00 35.23 1.00 37.56	A1 A1
ATOM	469	CG	LYS LYS	62 62	21.305 22.349	38.975	11.242	1.00 37.36	A1
ATOM	470 471	CD CE	LYS	62	22.427	38.038	13.347	1.00 43.94	A1
ATOM	472	NZ	LYS	62	21.213	37.446	14.089	1.00 45.54	Al
MOTA MOTA	473	C	LYS	62	21.066	39.710	7.382	1.00 34.27	Al
MOTA	474	0	LYS	62 ·	21.760	40.641	6.956	1.00 34.27	Al
ATOM	475	И	ALA	63	20.746	38.649	6.651	1.00 33.34	Al
ATOM	476	CA	ALA	63	21.177	38.496	5.297	1.00 33.37	Al
ATOM	477	CB	ALA	63	20.751	37.106	4.756	1.00 32.08	Al
ATOM	478	C	ALA	63	20.563	39.610	4.459	1.00 33.97	Al
ATOM	479	Ö	ALA	63	21.230	40.142	3.616	1.00 34.33	Al
ATOM	480	N	PHE	64	19.291	39.945	4.700	1.00 35.12	Al
ATOM	481	CA	PHE	64	18.585	40.987	3.955	1.00 35.58	Al
ATOM	482	CB	PHE	64	17.097	41.040	4.371	1.00 33.83	Al
ATOM	483	CG	PHE	64	16.211	41.767	3.393	1.00 32.65	Al
ATOM	484		PHE	64	15.901	41.190	2.164	1.00 32.40	A1
ATOM	485		PHE	64	15.671	43.012	3.708	1.00 32.51	A1
ATOM	486			64	15.073	41.824	1.274	1.00 32.68	Al
ATOM	487	CE2		64	14.826	43.682	2.829	1.00 32.56	A1
ATOM	488	CZ	PHE	64	14.517	43.085	1.593	1.00 33.86	A1
ATOM	489	C	PHE	64	19.259	42.334	4.236	1.00 36.82	A1
ATOM	490	Ō	PHE	64	19.007	43.330	3.554	1.00 37.04	Al
ATOM	491	N	GLY	65	20.092	42.350	5.265	1.00 38.68	Al
MOTA	492	CA	GLY	65	20.837	43.542	5.636	1.00 41.46	A1
MOTA	493	C	GLY	65	20.119	44.748	6.216	1.00 43.07	A1
MOTA	494	0	GLY	65	20.749	45.793	6.427	1.00 42.77	A1
ATOM	495	N	THR	66	18.821	44.628	6.487	1.00 44.10	Al
MOTA	496	CA	THR	66	18.062	45.767	7.032	1.00 45.54	Al
MOTA	497	CB	THR	66	16.769	46.091	6.194	1.00 45.56	A1
MOTA	498	OG1	THR	66	15.854	44.992	6.288	1.00 46.47	A1
MOTA	499	CG2	THR	66	17.093	46.322	4.730	1.00 45.39	Al
ATOM	500	C	THR	66	17.579	45.503	8.463	1.00 46.31	Al
MOTA	501	0	THR	66	17.262	46.453	9.195	1.00 45.86	Al
ATOM	502	N	GLY	67	17.509	44.221	8.857	1.00 46.67	Al
ATOM	503	CA	GLY	67	16.994	43.912	10.186	1.00 46.27	A1
MOTA	504	C	GLY	67	15.487	44.210	10.210	1.00 46.15	Al
MOTA	505	0	GLY	67	14.938	44.754	9.254	1.00 46.00	Al

MOTA	506	N	ILE	68	14.813	43.892	11.310	1.00 45.81	Al
ATOM	507	CA	ILE	68	13.380	44.098	11.393	1.00 45.27	A1
ATOM	508	CB	ILE	68	12.744	43.185	12.478	1.00 44.45	A1
MOTA	509		ILE	68	11.221	43.417	12.518	1.00 42.62	Al
ATOM	510	CG1		68	13.043	41.716	12.159	1.00 43.31	Al
ATOM	511	CD1		68	12.415	41.217	10.850	1.00 42.83	Al
ATOM	512	C	ILE	68	12.989	45.544	11.650	1.00 45.87	Al
ATOM	513	0	TLE	68	13.490	46.188	12.572	1.00 46.37	Al
MOTA	514	И	GLY	69	12.065	46.047	10.843	1.00 45.69	Al
ATOM ATOM	515	CA	GLY	69	11.643	47.426	10.988	1.00 45.78	Al
ATOM	516	C	GLY	69	10.838	47.891	9.789	1.00 46.78	Al
ATOM	517 518	0	GLY	69	9.977	47.182	9.252	1.00 46.20	A1
ATOM	519	N CA	ARG	70	11.120	49.108	9.360	1.00 47.73	A1
ATOM	520	CB	ARG ARG	70 70	10.415	49.684	8.236	1.00 48.39	Al
ATOM	521	CG	ARG	70 70	10.932	51.108	8.026	1.00 51.49	Al
ATOM	522	CD	ARG	70	10.084	51.897	7.059	1.00 55.58	A1
ATOM	523	NE	ARG	70	10.755	53.199	6.589	1.00 59.37	Al
ATOM	524	CZ	ARG	70	9.972	53.806	5.496	1.00 62.26	Al
ATOM	525	NH1		70	9.714 8.985	55.111	5.385	1.00 63.78	A1
ATOM	526	_	ARG	70	10.181	55.551 55.975	4.353	1.00 64.14	Al
ATOM	527	С	ARG	70	10.181	48.871	6.303	1.00 63.87	A1
ATOM	528	ō	ARG	70	9.480	48.606	6.914	1.00 47.02	A1
ATOM	529	N	GLN	71	11.705	48.471	6.250	1.00 46.19	A1
ATOM	530	CA	GLN	71	11.875	47.743	6.532 5.279	1.00 45.11	Al
ATOM	531	CB	GLN	71	13.336	47.854	4.821	1.00 43.56	A1
ATOM	532	CG	GLN	71	13.896	49.308	4.720	1.00 44.43	Al
ATOM	533	æ	GLN	71	15.391	49.319	4.344	1.00 45.80 1.00 47.82	A1
ATOM	534	OE1		71	15.764	48.917	3.228	1.00 47.82	A1
ATOM	535	NE2	GLN	71	16.253	49.751	5.276	1.00 47.27	A1
ATOM	536	C	GLN	71	11.483	46.275	5.387	1.00 47.27	Al
ATOM	537	0	GLN	71	11.186	45.639	4.395	1.00 42.01	Al Al
ATOM	538	N	LEU	72	11.425	45.743	6.601	1.00 39.83	Al
ATOM	539	CA	LEU	72	11.117	44.324	6.779	1.00 38.04	A1
MOTA	540	CB	LEU	72	12.420	43.528	6.713	1.00 36.85	Al
ATOM	541	CG	LEU	72	12.382	42.017	6.775	1.00 35.82	Al
ATOM	542	CD1	LEU	72	11.605	41.559	5.607	1.00 36.04	Al
ATOM	543	CD2	LEU	72	13.812	41.440	6.753	1.00 35.98	Al
MOTA	544	C	LEU	72	10.400	43.984	8.086	1.00 37.03	A1
ATOM	545	0	LEU	72	10.920	44.215	9.166	1.00 36.11	A1
ATOM	546	·N	SER	73	9.214	43.406	7.980	1.00 36.72	Al
ATOM	547	CA	SER	73	8.461	43.031	9.175	1.00 36.31	. Al
ATOM	548	CB	SER	73	7.003	43.440	9.032	1.00 36.91	Al
ATOM	549	OG	SER	73	6.222	42.756	10.003	1.00 39.16	A1
ATOM ATOM	550	C	SER	73	8.518	41.529	9.333	1.00 34.81	Al
ATOM	551	0	SER	73	8.730	40.849	8.353	1.00 34.46	Al
ATOM	552 5 <b>53</b>	N	PHE	74	8.368	41.023	10.565	1.00 33.65	Al
ATOM	55 <b>4</b>	CA	PHE	74	8.342	39.578	10.825	1.00 31.90	Al
MOTA	5 <b>55</b>	CB	PHE	74	7.948	39.298	12.282	1.00 30.13	Al
ATOM	556	CG CD1	PHE	74	9.046	39.532	13.283	1.00 29.47	Al
ATOM	557	CD1		74	10.153	38.660	13.341	1.00 27.35	Al
ATOM	558	CD2		74	8.983	40.633	14.167	1.00 28.21	A1
ATOM	559	CE1		74	11.195	38.867	14.254	1.00 28.79	A1
ATOM	560	CZ	PHE	74	10.021	40.878	15.100	1.00 28.83	A1
ATOM	561	C	PHE	74 74	11.146	39.992	15.160	1.00 29.18	A1
ATOM	562	0	PHE	74 74	7.240	38.948	9.935	1.00 32.18	A1
	302	•	FRE	74	7.334	37.801	9.490	1.00 31.91	A1

ATOM	563	N.T	CTAT	7.5	6 360				
		И	GLN	75 	6.168	39.704	9.731	1.00 32.36	A1
ATOM	564	CA	GLN	75	5.018	39.257	8.956	1.00 32.59	Al
ATOM	565	CB	GLN	75	3.847	40.223	9.188	1.00 34.01	Al
MOTA	566	CG	GLN	75	3.335	40.256	10.616	1.00 36.12	Al
ATOM	567	CD	GLN	75	2.919	38.876	11.112	1.00 38.23	A1
MOTA	568	OEl	GLN	75	3.282	38.496	12.227	1.00 39.11	Al
ATOM	569	NE2	GLN	75	2.148	38.118	10.290	1.00 37.65	A1
MOTA	570	С	GLN	75	5.270	39.153	7.450	1.00 32.64	Al
ATOM	571	0	GLN	75	4.418	38.625		1.00 32.25	Al
ATOM	572	N	ASP	76	6.407	39.681	6.958	1.00 31.97	Al
ATOM	573	CA	ASP	76	6.732	39.636	5.535	1.00 32.18	Al
ATOM	574	CB	ASP	76	7.584	40.808	5.066	1.00 32.18	
ATOM	575	CG	ASP	76	6.939	42.171	5.288		A1
ATOM	576		ASP	76	5.748			1.00 35.33	A1
ATOM	577		ASP			42.417	4.914	1.00 35.87	A1
ATOM	578			76 76	7.669	43.031	5.842	1.00 36.61	Al
ATOM		C	ASP	76 76	7.530	38.395	5.203	1.00 32.20	Al
	579	0	ASP	76	7.811	38.130	4.021	1.00 31.47	Al
ATOM	580	N	ILE	<b>77</b>	7.901	37.632	6.229	1.00 31.49	Al
ATOM	581	CA	ILE	77	8.744	36.421	6.006	1.00 31.71	Al
ATOM	582	CB	ILE	77	10.005	36.477	6.882	1.00 30.86	A1
MOTA	583	CG2		7 <b>7</b>	10.951	35.376	6.513	1.00 29.76	A1
ATOM	584	CG1	ILE	77	10.629	37.868	6.771	1.00 31.47	Al
MOTA	58 <b>5</b>	CD1	ILE	77	11.497	38.255	7.981	1.00 30.84	Al
MOTA	586	C	ILE	77	8.010	35.164	6.420	1.00 31.37	Al
ATOM	587	0	ILE	77	7.504	35.095	7.534	1.00 33.09	Al
ATOM	588	N	GLU	78	7.959	34.169	5.565	1.00 29.65	Al
ATOM	589	CA	GLU	78	7.306	32.952	5.971	1.00 28.49	A1
ATOM	590	CB	GLU	78	5.947	32.856	5.315	1.00 30.42	Al
ATOM	591	CG	GLU	78	5.133	31.599	5.646	1.00 31.45	A1
ATOM	592	CD	GLU	78	3.797	31.681	4.955	1.00 31.43	
ATOM	593		GLU	78	2.890				A1
ATOM	594		GLU			32.370	5.501	1.00 34.85	A1
ATOM	595			78 70	3.656	31.116	3.848	1.00 33.40	A1
		C	GLU	78	8.161	31.740	5.648	1.00 27.82	A1
ATOM	596	0	GLU	78	8.708	31.588	4.535	1.00 28.34	Al
ATOM	597	N	ILE	79	8.322	30.880	6.639	1.00 26.70	Al
ATOM	598	CA	ILE	79	9.097	29.671	6.433	1.00 25.67	Al
ATOM	599	CB	ILE	79	9.902	29.208	7.739	1.00 25.60	A1
MOTA	600	CG2		7,9	10.224	27.693	7.636	1.00 23.34	A1
MOTA	601		ILE	79	11.187	30.053	7.937	1.00 23.66	A1
MOTA	602	CD1	ILE	79	10.943	31.531	8.226	1.00 22.51	A1
MOTA	603	C	ILE	79	8.058	28.619	6.131	1.00 26.47	A1
ATOM	604	0	ILE	79	7.055	28.501	6.836	1.00 26.91	. Al
MOTA	605	N	ARG	80	8.258	27.879	5.062	1.00 27.30	Al
ATOM	606	CA	ARG	80	7.350	26.794	4.712	1.00 28.19	Al
ATOM	607	CB	ARG	80	6.641	27.089	3.351	1.00 28.49	A1
ATOM	608	CG	ARG	80	5.673	28.304	3.313	1.00 28.49	Al
ATOM	609	œ	ARG	80	4.975	28.383	1.922	1.00 30.89	Al
ATOM	610	NE	ARG	80			1.634	1.00 30.33	
ATOM	611	CZ	ARG		4.356	29.680			A1
	612			80	3.847	30.049	0.460	1.00 31.60	A1
ATOM ATOM			ARG	80	3.865	29.226	-0.584	1.00 31.89	A1
	613		ARG	80	3.354	31.272	0.320	1.00 31.19	A1
ATÓM	614	C	ARG	80	8.252	25.547	4.575	1.00 29.13	A1
ATOM	615	0	ARG	80	9.503	25.66 <b>6</b>	4.493	1.00 27.83	A1
ATOM	616	N	LYS	81	7.636	24.366	4.581	1.00 30.40	Al
MOTA	617	CA	LYS	81	8.358	23.104	4.392	1.00 32.40	Al
MOTA	618	CB	LYS	81	8.193	22.210	5.612	1.00 33.34	A1
ATOM	619	CG	LYS	81	9.194	22.540	6.717	1.00 37.90	A1

MOTA	620		LYS	81	9.035	21.611	7.935	1.00 41.46	
ATOM	621			81	10.236		8.948		A1
MOTA	622			81	9.836		10.319		A1
MOTA	623		LYS	81	7.874	22.337	3.126	1.00 33.26	A1
ATOM	624	-	LYS	81	6.669		2.875	1.00 32.50	A1
ATOM	625		ASP	82	8.791	21.799	2.335	1.00 33.89	A1 A1
ATOM	626			82	8.331	21.071	1.185	1.00 36.78	Al
ATOM ATOM	627		ASP	82	9.332	21.153	0.011	1.00 37.31	Al
ATOM	628		ASP	82	10.635	20.442	0.269	1.00 38.63	Al
ATOM	629 630		1 ASP	82	10.690	19.498	1.077	1.00 38.49	Al
ATOM	631		2 ASP	82	11.633	20.826	-0.398	1.00 41.14	A1
ATOM	632	0	ASP ASP	82	7.962	19.627	1.512	1.00 37.29	A1
ATOM	633	N	ALA	82	7.892	19.242	2.676	1.00 36.84	A1
ATOM	634	CA	ALA	83	7.688	18.840	0.481	1.00 38.27	A1
ATOM	635	СВ	ALA	. 83 83	7.281	17.446	0.677	1.00 40.15	A1
ATOM	636	C	ALA	83	7.085	16.751	-0.707	1.00 41.30	A1
ATOM	637	ō	ALA	83	8.261 7.842	16.634	1.559	1.00 40.22	Al
ATOM	638	N	ASN	84	9.554	15.798	2.359	1.00 40.09	A1
ATOM	639	CA	ASN	84	10.607	16.887	1.386	1.00 40.04	A1
ATOM	640	CB	ASN	84	11.908	16.221	2.157	1.00 40.28	Al
ATOM	641	CG	ASN	84	11.773	16.209 15.434	1.345	1.00 41.08	A1
MOTA	642		ASN	84	12.401	15.778	0.049 -0.966	1.00 42.63	A1
ATOM	643		2 ASN	84	10.957	14.373	0.072	1.00 43.70	Al
ATOM	644	C	ASN	84	10.897	16.895	3.513	1.00 42.72 1.00 39.63	A1
ATOM	645	0	ASN	84	11.838	16.500	4.199	1.00 39.63	Al
MOTA	646	N	GLY	85	10.114	17.899	3.903	1.00 38.52	Al
ATOM	647	CA	GLY	85	10.365	18.584	5.172	1.00 37.04	Al
MOTA	648	C	GLY	85	11.517	19.616	5.151	1.00 36.50	Al
ATOM	649	0	GLY	85	11.921	20.112	6.201	1.00 37.45	A1
ATOM	650	N	LYS	86	12:047	19.933	3.966	1.00 35.00	A1 A1
ATOM	651	CA	LYS	86	13.139	20.921	3.778	1.00 32.22	Al
ATOM	652	CB	LYS	86	13.754	20.797	2.369	1.00 31.49	Al
ATOM	653	CG	LYS	86	14.854	21.784	2.068	1.00 32.53	Al
ATOM	654	CD	LYS	86	15.943	21.629	3.134	1.00 35.38	A1
ATOM	655	CE	LYS	86	17.218	22.403	2.881	1.00 35.96	A1
ATOM	656	NZ	LYS	86	16.966	23.771	3.262	1.00 37.11	A1
ATOM ATOM	657	C	LYS	86	12.456	22.275	3.885	1.00 30.60	Al
ATOM	658 659	0	LYS	86	11.489	22.523	3.193	1.00 29.77	Al
ATOM	660	И	PRO	87	12.976	23.172	4.727	1.00 29.10	A1
ATOM	661	CD CD	PRO	87	14.082	22.948	5.699	1.00 28.74	. A1
ATOM	662	CA CB	PRO PRO	87	12.351	24.486	4.876	1.00 27.83	A1
ATOM	663	CG	PRO	87 87	12.765	24.891	6.297	1.00 27.32	Al
ATOM	664	C	PRO	87 87	14.256	24.309	6.370	1.00 27.78	Al
ATOM	665	o	PRO	87	12.783	25.517	3.801	1.00 27.06	Al
ATOM	666	N	TYR	88	13.890	25.471	3.333	1.00 27.38	Al
ATOM	667	CA	TYR	88	11.883 12.248	26.395	3.374	1.00 25.32	Al
MOTA	668	СВ	TYR	88	11.917	27.448	2.411	1.00 25.06	Al
ATOM	669	CG	TYR	88	10.463	27.069	0.947	1.00 24.22	Al
ATOM	670		TYR	88	9.599	26.735	0.656	1.00 23.29	A1
ATOM	671		TYR	88	8.247	27.704	0.100	1.00 22.42	A1
ATOM	672		TYR	88	9.952	27.406 25.460	-0.174	1.00 23.37	Al
ATOM	673		TYR	88	8.615	25.460 25.141	0.937	1.00 23.26	Al
ATOM	674	CZ	TYR	88	7.762	26.132	0.686 0.126	1.00 23.66 1.00 25.22	A1
ATOM	675	OH	TYR	88	6.421	25.901	-0.045	1.00 25.22	Al
ATOM	676	C	TYR	- 88	11.520	28.712	2.850	1.00 26.63	Al
						~0./14	£.03U	1.00 24.33	Al

MOTA	677	0	TYR	88	10.546	28.651	3.582	1.00 23.08	2.1
ATOM	678	N	ILE	89	12.029	29.856	2.443	1.00 24.80	A1
ATOM	679	CA	ILE	89	11.453	31.120	2.833	1.00 24.50	A1
ATOM	680	CB	ILE	89	12.525	32.056	3.375		A1
ATOM	681	CG2		89	12.086	33.554	3.208	1.00 24.83	A1
ATOM	682	CG1		89	12.788	31.742		1.00 24.50	A1
ATOM	683		ILE	89	14.217	32.125	4.864	1.00 24.97	A1
ATOM	684	C	ILE	89			5.316	1.00 25.39	Al
ATOM	685	0	ILE	89	10.809	31.826	1.679	1.00 26.13	A1
ATOM	686	N	ILE		11.378	31.920	0.600	1.00 26.39	A1
ATOM	687			90	9.590	32.304	1.907	1.00 27.30	A1
ATOM	-	CA	ILE	90	8.905	33.116	0.911	1.00 27.73	A1
	688	CB	ILE	90	7.457	32.697	0.679	1.00 27.77	Al
ATOM	689	CG2		90	6.777	33.777	-0.198	1.00 26.69	Al
MOTA	690		ILE	90	7.379	31.283	0.073	1.00 27.36	A1
ATOM	691	CD1		90	8.309	31.055	-1.121	1.00 25.23	Al
MOTA	692	C	ILE	90	8.863	34.461	1.619	1.00 28.64	Al
ATOM	693	0	ILE	90	8.375	34.534	2.750	1.00 28.70	A1
ATOM	694	N	CYS	91	9.368	35.500	0.979	1.00 29.78	A1
ATOM	695	CA	CYS	91	9.394	36.846	1.529	1.00 31.18	Al
ATOM	696	CB	CYS	91	10.822	37.284	1.840	1.00 31.71	A1
ATOM	697	SG	CYS	91	10.958	39.042	2.467	1.00 33.30	Al
MOTA	698	C	CYS	91	8.795	37.798	0.492	1.00 32.78	Al
ATOM	699	0	CYS	91	9.160	37.750	-0.701	1.00 32.93	Al
MOTA	700	N	THR	92	7.890	38.652	0.961	1.00 33.89	Al
ATOM	701	CA	THR	92	7.169	39.654	0.161	1.00 35.68	Al
ATOM	702	CB	THR	92	5.956	40.205	0.980	1.00 35.88	Al
MOTA	703	<b>OG1</b>	THR	92	6.424	40.914	2.147	1.00 35.36	Al
ATOM	704	CG2	THR	92	5.071	39.048	1.463	1.00 35.26	Al
ATOM	705	C	THR	92	8.007	40.867	-0.298	1.00 37.04	Al
ATOM	706	ō	THR	92	7.635	41.567	-1.234	1.00 37.04	Al
ATOM	707	N	LYS	93	9.132	41.099	0.361	1.00 38.09	
ATOM	708	CA	LYS	93	10.018	42.238	0.091	1.00 38.09	A1
ATOM	709	СВ	LYS	93	10.455	42.831			A1
ATOM	710	CG	LYS	93 <sup>°</sup>			1.410	1.00 38.83	A1
ATOM	711	CD	LYS	93	9.355	43.459	2.165	1.00 41.82	A1
ATOM					9.133	44.850	1.659	1.00 43.77	A1.
ATOM	712	CE	LYS	93	8.287	45.660	2.603	1.00 45.90	Al
	713	NZ	LYS	93	6.866	45.285	2.448	1.00 48.15	Al
ATOM	714	C	LYS	93	11.277	41.938	-0.700	1.00 39.21	Al
ATOM	715	0	LYS	93	12.037	42.843	-1.033	1.00 38.83	Al
ATOM	716	N	LEU	94	11.495	40.663	-0.980	1.00 40.77	Al
ATOM	717	CA	LEU	94	12.692	40.202	-1.677	1.00 42.19	Al
ATOM	718	CB	LEU	94	13.065	38.808	-1.152	1.00 41.91	. A1
ATOM	719	CG	LEU	94	14.332	38.116	-1.637	1.00 41.65	A1
ATOM	720		LEU	94	15.550	38.970	-1.401	1.00 42.73	A1
ATOM	721	CD2	LEU	94	14.464	36.818	-0.891	1.00 41.81	Al
ATOM	722	C	LEU	94	12.467	40.185	-3.186	1.00 43.24	A1
MOTA	723	0	LEU	94	11.555	39.532	-3.688	1.00 42.50	Al
MOTA	724	N	SER	95	13.329	40.899	-3.897	1.00 45.02	Al
ATOM	725	CA	SER	95	13.229	41.029	-5.343	1.00 47.26	Al
ATOM	726	CB	SER	95	13.094	42.524	-5.673	1.00 47.88	A1
ATOM	727	OG	SER	95	13.153	42.763	-7.070	1.00 50.21	A1
ATOM	728	c	SER	95	14.401	40.414	-6.130	1.00 47.86	Al
ATOM	729	ŏ	SER	95	15.558	40.660	-5.815	1.00 47.15	A1
ATOM	730	N	GLN	96	14.079	39.602	-7.138	1.00 48.90	Al
ATOM	731	CA	GLN	96	15.075		-8.016	1.00 49.92	A1
ATOM	732	CB	GLN	96		38.957			
ATOM					15.506	39.944	-9.123	1.00 52.77	Al
ATOM	733	CG	GLN	96	14.362	40.551	-9.970	1.00 57.47	Al

MOTA	734	CD	GLN	96	13.996	39.744	-11.255	1.00 60.94	·A1
ATOM	735	OEL	GLN	96	12.988		-11.934	1.00 63.96	A1
ATOM	736		GLN	96	14.802		-11.597	1.00 60.89	
ATOM	737	C	GLN	96	16.335	38.405	-7.322	1.00 48.68	A1
ATOM	738	0	GLN	96	17.465	38.849	-7.592		A1
ATOM	739	N	ALA	97	16.150	37.427	-6.443	1.00 48.55	A1
ATOM	740	CA	ALA	97	17.279	36.849	-5.738	1.00 46.14	A1
ATOM	741		ALA	97	17.720	37.792	-4.625	1.00 43.43	A1
ATOM	742	C	ALA	97	16.834	35.512		1.00 42.90	A1
ATOM	743	ō	ALA	97	15.649	35.275	-5.174	1.00 41.43	Al
ATOM	744	N	ALA	98	17.781		-5.016	1.00 42.26	A1
ATOM	745	CA	ALA	98	17.491	34.633	-4.888	1.00 38.63	A1
ATOM	746	CB	ALA	98	18.340	33.320	-4.333	1.00 35.46	A1
ATOM	747	C	ALA	98		32.283	-5.027	1.00 34.45	Al
ATOM	748	Õ	ALA	.98	17.829	33.355	-2.843	1.00 33.41	A1
ATOM	749	N	VAL		18.818	33.969	-2.447	1.00 32.79	Al
ATOM	750	CA	VAL	99	17.005	32.711	-2.034	1.00 31.25	A1
ATOM				99	17.213	32.600	-0.581	1.00 30.34	Al
ATOM	751	CB	VAL	99	15.994	32.977	0.278	1.00 32.21	A1
	752	CG1		99	16.452	33.374	1.688	1.00 30.41	Al
ATOM	753		VAL	99	15.153	33.979	-0.393	1.00 32.69	A1
MOTA	754	C	VAL	99	17.339	31.136	-0.206	1.00 29.01	A1
ATOM	755	0	VAL	99	16.558	30.319	-0.680	1.00 27.15	Al
ATOM	756	N	HIS	100	18.299	30.810	0.651	1.00 28.69	Al
ATOM	757	CA	HIS	100	18.435	29.432	1.141	1.00 28.94	Al
ATOM	758	CB	HIS	100	19.735	28.813	0.699	1.00 31.55	A1
MOTA	759	CG	HIS	100	19.904	28.75 <b>7</b>	-0.780	1.00 35.62	A1
MOTA	760		HIS	100	20.725	29.452	-1.610	1.00 36.22	A1
ATOM	761	ND1		100	19.196	27.881	-1.578	1.00 37.27	A1
ATOM	762	CE1	HIS	100	19.575	28.041	-2.836	1.00 36.95	A1
MOTA	763	NE2	HIS	100	20.497	28.987	-2.881	1.00 37.02	A1
MOTA	764	C	HIS	100	18.416	29.518	2.680	1.00 28.21	Al
MOTA	765	0	HIS	100	18.921	30.477	3.274	1.00 28.01	A1
MOTA	766	N	VAL	101	17.819	28.534	3.320	1.00 26.49	Al
ATOM	767	CA	VAL	101	17.731	28.521	4.755	1.00 25.36	Al
ATOM	768	CB	VAL	101	16.321	28.961	5.171	1.00 25.72	Al
ATOM	769	CG1	VAL	101	15.312	27.810	4.830	1.00 25.91	Al
MOTA	770	CG2	VAL	101	16.249	29.263	6.693	1.00 24.55	Al
ATOM	771	C	VAL	101	17.974	27.082	5.284	1.00 24.98	Al
MOTA	772	0	VAL	101	17.731	26.114	4.577	1.00 23.99	Al
ATOM	773	N	SER	102	18.460	26.968	6.525	1.00 25.05	
ATOM	774	CA	SER	102	18.654	25.705	7.218	1.00 25.32	A1 A1
ATOM	775	CB	SER	102	20.016		6.943		
ATOM	776	OG	SER	102	20.018	23.796		1.00 25.69 1.00 26.81	· Al
ATOM	777	C	SER	102			7.570		Al
ATOM	778	ō	SER	102	18.474	25.991	8.715	1.00 26.24	Al
ATOM	779	N	ILE	103	18.990	26.948	9.279	1.00 26.44	A1
ATOM	780				17.727	25.118	9.347	1.00 27.73	A1
MOTA	781	CA	ILE	103	17.348	25.250	10.733	1.00 28.05	A1
		CB	ILE	103	15.823	25.429	10.771	1.00 28.38	A1
ATOM	782	CG2		103	15.257	25.564	12.273	1.00 26.15	A1
ATOM	783	CG1		103	15.482	26.676	9.967	1.00 27.93	A1
ATOM	784	CDI		103	13.976	26.855	9.714	1.00 27.56	A1
ATOM	785	C	ILE	103	17.743	23.982	11.474	1.00 29.39	Al
MOTA	786	0	ILE	103	17.594	22.882	10.953	1.00 28.59	A1
ATOM	787	N	THR	104	18.279	24.133	12.679	1.00 31.06	A1
ATOM	788	CA	THR	104	18.659	22.963	13.470	1.00 32.26	A1
ATOM	789	CB	THR	104	20.156	22.640	13.288	1.00 33.13	- A1
ATOM	790	OG1	THR	104	20.417	21.334	13.796	1.00 36.05	A1
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MOTA	791	CG2	THR	104	21.040	23.653	14.041	1.00 34.05	Al
ATOM	. 792	C	THR	104	18.337	23.236	14.945	1.00 32.20	Al
MOTA	793	0	THR	104	18.251	24.383	15.375	1.00 32.07	
MOTA	794	N	HIS	105	18.207	22.175	15.718	1.00 32.17	A1
ATOM	795	CA	HIS	105	17.868	22.318	17.112	1.00 33.14	A1
ATOM	796	CB	HIS	105	16.419	21.857	17.378	1.00 33.42	Al
ATOM	797	CG	HIS	105	15.361	22.740	16.785	1.00 33.42	A1
ATOM	798		HIS	105	14.776	22.728	15.563	1.00 33.41	A1
ATOM	799		HIS	105	14.806	23.799	17.468	1.00 33.56	A1
MOTA	800		. HIS	105	13.930	24.410	16.684	1.00 33.55	A1
ATOM	801	NE2	HIS	105	13.898	23.784	15.524	1.00 31.70	Al
ATOM	802	C	HIS	105	18.732	21.440	17.955	1.00 33.28	Al
MOTA	803	0	HIS	105	19.219	20.423	17.495	1.00 34.01	Al Al
MOTA	804	N	THR	106	18.913	21.866	19.188	1.00 33.82	
ATOM	805	CA	THR	106	19.571	21.079	20.231	1.00 35.50	A1
ATOM	806	CB	THR	106	20.888	21.669	20.699	1.00 34.97	A1
ATOM	807	OG1	THR	106	20.649	23.006	21.184	1.00 35.76	A1
ATOM	808	CG2	THR	106	21.896	21.675	19.560	1.00 34.11	Al
ATOM	809	С	THR	106	18.534	21.271	21.372	1.00 36.77	A1 A1
ATOM	810	0	THR	106	17.583	22.050	21.232	1.00 36.77	
ATOM	811	N	LYS	107	18.705	20.579	22.488	1.00 38.69	A1 A1
ATOM	812	CA	LYS	107	17.766	20.700	23.606	1.00 39.45	A1
ATOM	813	CB	LYS	107	18.217	19.791	24.744	1.00 41.81	Al
ATOM	814	CG	LYS	107	18.548	18.426	24.200	1.00 45.50	Al
ATOM	815	CD	LYS	107	17.376	17.906	23.316	1.00 48.48	
ATOM	816	CE	LYS	107 ·	17.726	16.573	22.670	1.00 49.87	Al
ATOM	817	NZ	LYS	107	19.034	16.767	21.979	1.00 51.62	A1 A1
ATOM	818	C	LYS	107	17.629	22.131	24.102	1.00 31.02	
ATOM	819	0	LYS	107	16.549	22.546	24.447	1.00 38.83	A1 A1
ATOM	820	N	GLU	108	18.717	22.890	24.129	1.00 38.25	
MOTA	821	CA	GLU	108	18.634	24.266	24.600	1.00 38.46	A1
MOTA	822	CB	GLU	108	19.784	24.546	25.551	1.00 41.56	A1
ATOM	823	CG	GLU	108.	19.689	23.806	26.905	1.00 46.25	A1 A1
MOTA	824	CD	GLU	108	21.046	23.723	27.532	1.00 49.16	A1
MOTA	825	OE1	GLU	108	21.297	22.804	28.359	1.00 51.02	A1
ATOM	826	OE2	GLU	108	21.875	24.583	27.165	1.00 50.23	Al
MOTA	827	C	GLU	108	18.599	25.342	23.511	1.00 37.27	Al
MOTA	828	0	GLU	108	18.241	26.490	23.775	1.00 37.57	A1
MOTA	829	N	TYR	109	18.882	24.972	22.272	1.00 35.87	A1
ATOM	830	CA	TYR	109	18.903	25.983	21.205	1.00 34.61	A1
MOTA	831	CB	TYR	109	20.347	26.276	20.786	1.00 35.12	A1
MOTA	832	CG	TYR	109	21.247	26.738	21.886	1.00 37.02	Al
ATOM	833	CD1	TYR	109	21.082	27.983	22.469	1.00 37.99	Al
MOTA	834	CE1	TYR	109	21.878	28.388	23.506	1.00 39.54	Al
MOTA	835		TYR	109	22.238	25.905	22.370	1.00 38.09	Al
MOTA	836		TYR	109	23.033	26.284	23.413	1.00 40.11	Al
MOTA	837	CZ	TYR	109	22.848	27.524	23.983	1.00 40.67	Al
MOTA	838	OH	TYR	109	23.585	27.851	25.080	1.00 42.84	A1
MOTA	839	C	TYR	109	18.178	25.739	19.900	1.00 32.13	Al
MOTA	840	0	TYR	109	17.993	24.593	19.476	1.00 31.90	A1
MOTA	841	N	ALA	110	17.817	26.857	19.272	1.00 30.38	Al
MOTA	842	CA	ALA	110	17.290	26.885	17.897	1.00 28.86	Al
MOTA	843	CB	ALA	110	15.995	27.591	17.836	1.00 28.37	A1
MOTA	844	C	ALA	110	18.370	27.712	17.127	1.00 29.23	Al
MOTA	845	0	ALA	110	18.794	28.810	17.575	1.00 29.93	A1
ATOM	846	И	ALA	111	18.882	27.187	16.022	1.00 27.52	Al
ATOM	847	CA	ALA	111	19.837	27.950	15.237	1.00 25.45	A1
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ATOM	848			111	21.158	27.349	15.323	1.00 24.00	
ATOM	849		ALA	111	19.368	27.907			A1
ATOM	850		ALA	111	18.808	26.889		1.00 25.88	A1
ATOM	851		ALA	112	19.592	29.004			A1
ATOM	852			112	19.264				Al
ATOM	853			112	17.946				A1
ATOM	854	_	ALA	112	20.339		10.848		A1
ATOM	855		ALA	112	20.956		11.398		Al
MOTA	856		GLN	113	20.556	29.564	9.586		A1
ATOM	857			113	21.470	30.320	8.770		Al
ATOM	858			113	22.760	29.543	8.517		A1
ATOM	859			113	22.662	28.453	7.592		Al
ATOM	860			113	23.958	27.673	7.572		A1
ATOM	861		1 GLN	113	24.926	28.054	8.255		Al
ATOM	862			113	23.992	26.573	6.829		A1
ATOM	863	С	GLN	113	20.694	30.579	7.471	1.00 31.90	A1
ATOM	864	0	GLN	113	19.859	29.755	7.045	1.00 24.97	Al
ATOM	865	N	VAL	114	20.925	31.745	6.882	1.00 24.78	A1
ATOM	866	CA	·	114	20.225	32.103	5.673	1.00 25.47	A1
ATOM	867	CB	VAL	114	19.161	33.207	5.911	1.00 24.56	A1
ATOM	868		l VAL	114	18.648	33.687	4.571	1.00 24.37	A1
ATOM	869		2 VAL	114	18.009	32.716	6.747	1.00 22.99	Al
ATOM	870	C	VAL	114	21.192	32.670	4.638	1.00 26.69	Al
ATOM	871	0	VAL	114	22.091	33.446	4.989	1.00 26.92	Al
ATOM	872	N	VAL	115	21.018	32.286	3.371	1.00 27.22	A1
ATOM	873	CA	VAL	115	21.834	32.879	2.303	1.00 28.03	Al
ATOM	874	CB	VAL	115	22.795	31.856	1.613	1.00 27.69	A1
MOTA	875		L VAL	115	23.605	32.534	0.410	1.00 25.99	A1 A1
ATOM	876		VAL.	115	23.795	31.316	2.637	1.00 27.55	
ATOM	877	C	VAL	115	20.865	33.507	1.254	1.00 29.18	A1
ATOM	878	0	VAL	115	19.864	32.900	0.824	1.00 27.88	Al
ATOM	879	N	ILE	116	21.131	34.767	0.932	1.00 30.60	A1 A1
ATOM	880	CA	ILE	116	20.367	35.486	-0.076	1.00 32.32	A1
ATOM	881	CB	ILE	116	19.787	36.777	0.501	1.00 31.54	Al
ATOM	882	CG2		116	19.258	37.657	-0.621	1.00 30.92	Al
ATOM	883		ILE	116	18.651	36.419	1.510	1.00 30.97	Al
ATOM ATOM	884		ILE	116	17.956	37.568	2.088	1.00 29.63	A1
	885	C	ILE	116	21.423	35.756	-1.170	1.00 36.07	Al
ATOM ATOM	886	0	ILE	116	22.425	36.468	-0.958	1.00 35.04	Al
ATOM	887	N	GLU	117	21.201	35.130	-2.316	1.00 39.41	A1
ATOM	888	CA	GLU	117	22.104	35.182	-3.479	1.00 44.07	Al
ATOM	889	CB	GLU	117	22.420	33.781	-4.007	1.00 44.80	, A1
ATOM	890	CG	GLU	117	23.090	32.856	-3.087	1.00 47.54	Al
ATOM	891	CD	GLU	117	23.439	31.583	-3.800	1.00 49.39	A1
ATOM	892		GLU	117	22.506	30.829	-4.213	1.00 49.67	A1
ATOM	893 894		GLU	117	24.661	31.354	-3.953	1.00 50.54	A1
ATOM		C	GLU	117	21.527	35.833	-4.701	1.00 45.98	Al
ATOM	895	0	GLU	117	20.347	36.079	-4.779	1.00 46.28	A1
ATOM	896	N	ALA	118	22.396	36.016	-5.696	1.00 49.81	A1
ATOM	897	CA	ALA	118	22.012	36.546	-7.004	1.00 53.49	Al
ATOM	898	СВ	ALA	118	23.271	36.985	-7.787	1.00 53.10	A1
ATOM	899 900	C	ALA	118	21.344	35.312	-7.683	1.00 56.40	A1
ATOM		0	ALA	118	21.759	34.156	-7.466	1.00 56.33	Al
ATOM	901	И	LEU	119	20.314	35.556	-8.485	1.00 58.93	Al
ATOM	902	CA	LEU	119	19.614	34.475	-9.176	1.00 62.13	Al
ATOM	903	CB	LEU	119	18.385	35.046	-9.902	1.00 62.98	Al
-10M	904	CG	LEU	119	17.128	35.145	-9.029	1.00 64.50	Al

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ATOM	905		L LEU	119	15.976	35.783	-9.797	1.00 64.92	A1
ATOM	906		LEU	119	16.746	33.722	-8.584	1.00 65.21	Al
ATOM	907	C	LEU	119	20.484	33.670	-10.164	1.00 63.60	Al
ATOM	908		LEU	119	21.489	34.207	-10.695	1.00 64.51	Al
ATOM	909		LEU	119	20.141	32.490	-10.403	1.00 64.56	Al
ATOM	910	CB	ALA	2	31.204	30.268	-1.737	1.00 26.39	B1
ATOM	911	C	ALA	2	33.074	29.689	-3.244	1.00 25.91	B1
ATOM	912	0	ALA	2	33.105	28.570	-3.739	1.00 26.11	B1
ATOM	913	N	ALA	2	30.781	29.877	-4.115	1.00 25.73	B1
ATOM	914	CA	ALA	2	31.761	30.434	-3.139	1.00 25.92	B1
ATOM	.915	N	TYR	3	34.150	30.270	-2.707	1.00 25.88	B1
ATOM	916	CA	TYR	3	35.481	29.614	-2.742	1.00 26.08	B1 ·
ATOM	917	CB	TYR	3	36.575	30.662	-2.886	1.00 26.57	B1
ATOM	918	CG	TYR	3	36.421	31.481	-4.102	1.00 27.82	
ATOM	919		TYR	3	36.818	32.814	-4.122	1.00 27.82	B1
ATOM	920	CE1	TYR	3	36.734	33.556	-5.296	1.00 28.29	B1
ATOM	921	CD2	TYR	3	35.931	30.921	-5.281	1.00 28.29	B1
ATOM	922	CE2	TYR	3	35.840	31.655	-6.439	1.00 28.63	B1
MOTA	923	CZ	TYR	3	36.243	32.960	-6.437	1.00 28.80	B1
ATOM	924	OH	TYR	3	36.164	33.677	-7.609	1.00 28.80	B1
MOTA	925	C	TYR	3	35.772	28.792	-1.465		B1
ATOM	926	0	TYR	3	36.490	27.795		1.00 25.12	B1
ATOM	927	N	GLY	4	35.235	29.257	-1.518 -0.326	1.00 23.25	B1
ATOM	928	CA	GLY	4	35.397	28.565		1.00 25.05	B1
ATOM	929	C	GLY	4	34.387	29.073	0.958	1.00 23.80	B1
ATOM	930	0	GLY	4	33.838	30.213	1.990	1.00 24.49	B1
ATOM	931	N	ILE	5	34.096	28.253	1.843	1.00 23.38	Bl
MOTA	932	CA	ILE	5	33.215	28.684	3.014	1.00 24.35	Bl
ATOM	933	CB	ILE	5	31.806		4.077	1.00 24.74	Bl
ATOM	934		ILE	5	31.156	28.117	3.996	1.00 25.07	B1
ATOM	935	CG1		5	31.136	28.471	2.641	1.00 24.89	B1
ATOM	936	CD1		5	30.415	26.585	4.228	1.00 26.94	B1
ATOM	937	C	ILE	5	33.812	25.916	4.024	1.00 25.53	B1
ATOM	938	ō	ILE	5	34.669	28.256	5.382	1.00 25.64	B1
ATOM	939	N	GLY	6	33.356	27.397	5.431	1.00 26.38	B1
ATOM	940	CA	GLY	6	33.864	28.860	6.457	1.00 25.30	B1
ATOM	941	c	GLY	6		28.495	7.752	1.00 25.02	B1
ATOM	942	ŏ	GLY	6	32.887	28.860	8.862	1.00 25.03	B1
ATOM	943	N	LEU	7	32.180	29.886	8.809	1.00 24.21	B1
ATOM	944	CA	LEU	7	32.882	28.022	9.892	1.00 25.45	B1
ATOM	945	CB	LEU	7	32.023	28.217	11.036	1.00 26.13	B1
ATOM	946	CG		7	30.893	27.176	11.031	1.00 27.37	Bl
ATOM	947		LEU	7	29.911	27.230	12.202	1.00 27.44	. B1
ATOM	948		LEU	7	29.025	28.487	12.083	1.00 28.47	Bl
ATOM	949	C	LEU		29.047	26.014	12.156	1.00 27.61	B1
ATOM	950	ò	LEU	7	32.836	28.022	12.306	1.00 26.61	B1
ATOM	951	N	ASP	7	33.773	27.217	12.350	1.00 26.23	B1
ATOM	952	CA	ASP	8	32.474	28.777	13.338	1.00 27.29	B1
ATOM	953	СВ		8	33.126	28.645	14.649	1.00 28.31	B1
ATOM	954		ASP	8	34.444	29.445	14.775	1.00 29.82	B1
ATOM		CG	ASP	8	35.210	29.094	16.096	1.00 32.76	B1
	955 056		ASP	8	35.069	29.848	17.084	1.00 32.47	Bl
ATOM	956 057	OD2		8	35.929	28.040	16.138	1.00 33.99	B1
ATOM	957	C	ASP	8	32.194	29.076	15.750	1.00 26.75	B1
ATOM	958	0	ASP	8	31.471	30.067	15.628	1.00 25.85	B1
ATOM	959	N	ILE	9	32.193	28.280	16.805	1.00 26.88	B1
ATOM	960	CA	ILE	9	31.379	28.564	17.999	1.00 27.43	B1
MOTA	961	CB	ILE	9	30.312	27.446	18.244	1.00 27.59	B1

ATOM	962		ILE	9	29.559	27.658	19.599	1.00 27.04	B1
ATOM	963	CG1		9	29.318	27.430	17.044	1.00 28.13	B1
ATOM	964	CD1		9	28.148	26.387	17.150	1.00 27.19	Bl
ATOM	965	C	ILE	9	32.382	28.611	19.145	1.00 28.24	Bl
MOTA	966	0	ILE	9	33.151	27.690 <sub>.</sub>	19.321	1.00 28.60	B1
ATOM	967	И	THR	10	32.353	29.685	19.926	1.00 29.28	B1
ATOM	968	CA	THR	10	33.249	29.864	21.057	1.00 30.48	B1
ATOM	969	CB	THR	10	34.188	31.052	20.742	1.00 31.33	B1
ATOM	970	OG1	THR	10	35.169	30.594	19.789	1.00 34.42	B1
ATOM ATOM	971	CG2 C	THR	10	34.917	31.538	21.956	1.00 32.00	B1
ATOM	972 973	0	THR	10	32.526	30.036	22.419	1.00 29.95	B1
ATOM	974	И	THR GLU	10 11	31.531 33.048	30.720	22.529	1.00 28.39	Bl
ATOM	975	CA	GLU	11		29.399	23.464	1.00 31.32	B1
ATOM	976	CB	GLU	11	32.403	29.472	24.801	1.00 31.87	B1
ATOM	977	CG	GLU	11	32.835 31.716	28.289 27.784	25.676	1.00 33.64	B1
ATOM	978	CD	GLU	11	32.181	27.784	26.547	1.00 40.24	B1
ATOM	979		GLU	11	33.344	26.499	27.821 27.873	1.00 43.39 1.00 44.86	B1
ATOM	980	OE2	GLU	11	31.343	26.941	28.766	1.00 44.88	B1
ATOM	981	C	GLU	11	32.804	30.770	25.481	1.00 30.40	B1
ATOM	982	o	GLU	11	33.992	31.004	25.678	1.00 30.40	B1 B1
ATOM	983	N	LEU	12	31.823	31.610	25.801	1.00 29.04	B1
ATOM	984	CA	LEU	12	32.089	32.876	26.454	1.00 31.07	B1
ATOM	985	CB	LEU	12	30.801	33.681	26.662	1.00 32.99	B1
ATOM	986	CG	LEU	12	30.053	34.021	25.359	1.00 35.90	B1
MOTA	987	CD1	LEU	12	28.665	34.596	25.624	1.00 35.82	B1
ATOM	988	CD2	LEU	12	30.901	35.004	24.552	1.00 36.85	B1
MOTA	989	C	LEU	12	32.815	32.740	27.816	1.00 31.80	B1
ATOM	990	0	LEU	12	33.708	33.553	28.106	1.00 31.13	Bl
ATOM	991	N	ALA	13	32.448	31.741	28.634	1.00 31.23	B1
ATOM	992	CA	ALA	13	33.123	31.588	29.927	1.00 32.54	B1
ATOM	993	CB	ALA	13	32.413	30.507	30.881	1.00 32.09	B1
ATOM	994	C	ALA	13	34.588	31.260	29.733	1.00 31.41	Bl
ATOM	995	0	ALA	13	35.431	31.793	30.433	1.00 30.77	Bl
ATOM	996	N	ARG	14	34.891	30.414	28.754	1.00 31.73	<b>B1</b>
ATOM	997	CA	ARG	14	36.286	30.039	28.459	1.00 30.99	B1
ATOM	998	CB	ARG	14	36.259	29.020	27.327	1.00 30.57	Bl
ATOM	999	CG	ARG	14	37.526	28.328	27.173	1.00 31.14	B1
MOTA MOTA	1000	CD	ARG	14	37.522	27.371	26.023	1.00 32.79	B1
ATOM	1001 1002	ne Cz	ARG	14	38.887	26.847	25.848	1.00 32.33	B1
ATOM	1002		ARG ARG	14 14	39.262	25.977	24.925	1.00 31.66	B1
ATOM	1003		ARG	14	38.383 40.513	25.511	24.042	1.00 31.62	. B1
ATOM	1005	C	ARG	14	37.125.	25.543	24.926	1.00 31.83	B1
ATOM	1006	o	ARG	14	38.204	31.325 31.580	28.076 28.588	1.00 30.35 1.00 29.54	B1
ATOM	1007	й	ILE	15	36.585	32.141	27.185	1.00 30.11	B1 B1
ATOM	1008	CA	ILE	15	37.218	33.400	26.814	1.00 30.69	B1
MOTA	1009	СВ	ILE	15	36.361	34.204	25.754	1.00 30.02	B1
ATOM	1010		ILE	15	36.816	35.678	25.717	1.00 28.67	B1
ATOM	1011		ILE	15	36.417	33.502	24.393	1.00 28.37	B1
ATOM	1012		ILE	15	37.778	33.454	23.791	1.00 27.34	B1
ATOM	1013	C	ILE	15	37.362	34.280	28.074	1.00 30.92	B1
ATOM	1014	0	ILE	15	38.439	34.823	28.358	1.00 31.82	B1
MOTA	1015	N	ALA	16	36.283	34.443	28.805	1.00 30.39	B1
ATOM	1016	CA	ALA	16	36.326	35.247	30.020	1.00 31.94	B1
ATOM	1017	CB	ALA	16	34.941	35.199	30.765	1.00 29.82	Bl
ATOM	1018	C	ALA	16	37.475	34.791	30.969	1.00 32.80	Bl

ATOM	1019	0	ALA	16	38.254	35.621	31.429	1.00 34.32	Bl
ATOM	1020	И	SER	17	37.568	33.501	31.267	1.00 32.89	B1
MOTA	1021	CA	SER	17	38.629	32.978	32.125	1.00 34.00	B1
ATOM	1022	CB	SER	17	38.517	31.476	32.260	1.00 32.84	B1
ATOM	1023	OG	SER	17	37.194	31.136	32.461	1.00 35.05	Bl
ATOM	1024	C	SER	17	40.018	33.242	31.561	1.00 34.86	Bl
ATOM	1025	0	SER	17	40.946	33.597	32.273	1.00 33.03	B1
ATOM	1026	N	MET	18	40.160	32.993	30.270	1.00 37.22	B1
ATOM	1027	CA	MET	18	41.450	33.205	29.637	1.00 39.40	B1
ATOM	1028	CB	MET	18	41.446	32.790	28.186	1.00 41.45	B1
MOTA	1029	CG	MET	18	41.697	31.321	27.987	1.00 45.54	B1
MOTA	1030	SD	MET	18	41.922	31.024	26.211	1.00 50.43	B1
MOTA	1031	CE	MET	18	40.247	30.845	25.782	1.00 48.09	B1
ATOM	1032	С	MET	18	41.878	34.643	29.726	1.00 39.53	B1
ATOM	1033	0	MET	18	43.020	34.910	30.119	1.00 40.11	B1
ATOM	1034	N	ALA	19	41.003	35.574	29.376	1.00 39.08	B1
ATOM	1035	CA	ALA	19	41.412	36.973	29.473	1.00 39.54	B1
ATOM	1036	CB	ALA	19	40.327	37.933	28.907	1.00 38.99	B1
ATOM	1037	c	ALA	19	41.715	37.317	30.925	1.00 39.55	
ATOM	1038	ō	ALA	19	42.608	38.115	31.168	1.00 40.32	B1
ATOM	1039	N	GLY	20	41.005	36.718	31.888	1.00 40.32	B1
ATOM	1040	CA	GLY	20	41.269	37.037	33.277		B1
ATOM	1041	C	GLY	20	42.655	36.569		1.00 39.09	B1
ATOM	1042	o	GLY	20	43.421	37.278	33.713	1.00 39.90	B1
MOTA	1043	N	ARG	21	42.957	35.353	34.382	1.00 39.40	B1
ATOM	1044	CA	ARG	21	44.192	34.626	33.288 33.543	1.00 39.88	B1
ATOM	1045	CB	ARG	21	43.920			1.00 40.39	B1
MOTA	1046	CG	ARG	21	44.701	33.149	33.162	1.00 39.16	B1
ATOM	1047	CD	ARG	21	44.013	32.071	33.882	1.00 37.29	B1
ATOM	1048	NE	ARG	21	43.669	30.718	33.776	1.00 35.14	B1
ATOM	1049	CZ	ARG	21	43.669	30.325	32.393	1.00 33.14	B1
ATOM	1050	NH1		21		29.918	32.010	1.00 32.97	B1
ATOM	1051		ARG	21	41.444	29.861	32.898	1.00 32.98	B1
MOTA	1052	C	ARG		42.234	29.515	30.767	1.00 30.26	Bl
ATOM	1052	0	ARG	21 21	45.383	35.225	32.728	1.00 41.48	B1
ATOM	1054	N	GLN		46.556	35.161	33.147	1.00 41.49	B1
ATOM	1055	CA		22	45.086	35.851	31.590	1.00 42.70	B1
ATOM			GLN	22	46.149	36.426	30.758	1.00 43.56	. B1
	1056	CB	GLN	22	46.536	35.439	29.664	1.00 45.80	B1
MOTA	1057	CG	GLN	22	47.813	35.827	28.972	1.00 49.05	B1
MOTA	1058	CD	GLN	22	48.970	35.490	29.843	1.00 50.23	B1
MOTA	1059		GLN	22	49.851	36.326	30.101	1.00 50.93	B1
ATOM	1060	NE2		22	48.977	34.246	30.334	1.00 51.27	·. B1
MOTA	1061	C	GLN	22	45.786	37.747	30.114	1.00 43.68	B1
ATOM	1062	0	GLN	22	45.133	37.782	29.071	1.00 43.58	B1
ATOM	1063	N	LYS	23	46.234	38.841	30.721	1.00 44.50	Bl
ATOM	1064	CA	LYS	23	45.932	40.197	30.213	1.00 45.41	B1
MOTA	1065	CB	LYS	23	46.577	41.263	31.174	1.00 46.07	B1
ATOM	1066	C	LYS	23	46.286	40.529	28.721	1.00 45.13	B1
ATOM	1067	0	LYS	23	45.670	41.419	28.111	1.00 45.95	B1
MOTA	1068	N	ARG	24	47.252	39.828	28.137	1.00 44.79	B1
MOTA	1069	CA	ARG	24	47.647	40.066	26.734	1.00 44.30	B1
MOTA	1070	CB	ARG	24	49.161	39.813	26.558	1.00 45.66	B1
ATOM	1071	CG	ARG	24	50.091	40.916	27.138	-	, B1
ATOM	1072	CD	ARG	24	51.545	40.424	27.439	1.00 51.04	B1
ATOM	1073	NE	ARG	24	52.170	39.768	26.281	1.00 53.16	B1
MOTA	1074	CZ	ARG	24	52.409	38.460	26.181	1.00 52.98	B1
ATOM	1075	NH1	ARG	24	52.098	37.631	27.176	1.00 52.77	B1

MOTA	1076	NH2	2 ARG	24	52.911	37.976	25.050	1.00 53.75	ъ,
MOTA	1077	C	ARG	24	46.862	39.224	25.682	1.00 43.41	B1
ATOM	1078	0	ARG	24	47.117	39.342	24.476	1.00 41.77	B1 B1
MOTA	1079	N	PHE	25	45.904	38.396	26.122	1.00 41.98	
ATOM	1080	CA	PHE	25	45.153	37.588	25.159	1.00 41.18	B1 B1
ATOM	1081	CB	PHE	25	44.145	36.674	25.866	1.00 40.68	B1
ATOM	1082	CG	PHE	25	43.188	35.966	24.926	1.00 41.90	B1
ATOM	1083		. PHE	25	43.657	35.222	23.852	1.00 40.31	B1
ATOM	1084		PHE	25	41.796	35.990	25.168	1.00 42.65	B1
ATOM	1085		PHE	25	42.793	34.515	23.047	1.00 40.58	B1
ATOM	1086		PHE	25	40.904	35.265	24.342	1.00 42.06	B1
ATOM	1087	cz	PHE	25	41.403	34.532	23.290	1.00 41.02	B1
ATOM ATOM	1088	C	PHE	25	44.432	38.438	24.128	1.00 39.93	B1
ATOM	1089 1090	0	PHE	25	44.489	38.151	22.944	1.00 40.29	B1
ATOM	1090	N CA	ALA ALA	26	43.778	39.500	24.569	1.00 39.38	B1
ATOM	1092	CB	ALA	26	43.052	40.358	23.659	1.00 39.11	Bl
ATOM	1093	C	ALA	26 26	42.214	41.368	24.439	1.00 39.81	Bl
ATOM	1094	o	ALA	26	43.943 43.532	41.073	22.667	1.00 39.48	Bl
ATOM	1095	N	GLU	27	45.151	41.289	21.525	1.00 39.36	B1
ATOM	1096	CA	GLU	27	46.105	41.446	23.090	1.00 39.52	B1
ATOM	1097	СВ	GLU	27	47.359	42.137 42.618	22.214	1.00 39.44	B1
MOTA	1098	CG	GLU	27	47.153	42.818	22.972	1.00 42.26	Bi
ATOM	1099	CD	GLU	27	48.453	44.311	23.880 24.546	1.00 46.62	B1
ATOM	1100		GLU	27	48.791	43.779	25.635	1.00 49.04 1.00 49.32	B1
MOTA	1101	OE2		27	49.145	45.198	23.959	1.00 49.32	B1
ATOM	1102	C	GLU	27	46.572	41.231	21.114	1.00 37.83	B1
ATOM	1103	0	GLU	27	46.871	41.700	20.010	1.00 37.83	B1
ATOM	1104	N	ARG	28	46.660	39.938	21.414	1.00 35.85	B1 B1
ATOM	1105	CA	ARG	28	47.092	38.981	20.403	1.00 35.38	B1
ATOM	1106	CB	ARG	28	47.359	37.617	21.011	1.00 35.61	B1
ATOM	1107	CG	ARG	28	48.442	36.892	20.272	1.00 37.83	B1
ATOM	1108	CD	ARG	28	48.482	35.423	20.638	1.00 40.08	Bl
ATOM	1109	NE	ARG	28	49.440	34.762	19.763	1.00 41.90	Bl
ATOM	1110	CZ	ARG	28	50.761	34.831	19.905	1.00 43.04	B1
ATOM	1111		ARG	28	51.318	35.525	20.919	1.00 42.06	B1
ATOM	1112	NH2		28	51.532	34.225	18.999	1.00 43.51	B1
ATOM	1113	C	ARG	28	46.041	38.782	19.314	1.00 34.81	B1
MOTA MOTA	1114	0	ARG	28	46.384	38.692	18.146	1.00 34.82	B1
ATOM	1115 1116	N	ILE	29	44.770	38.705	19.727	1.00 34.29	B1
ATOM	1117	CA CB	ILE	29	43.608	38.476	18.854	1.00 33.36	B1
ATOM	1118		ILE	29 29	42.388	38.009	19.716	1.00 32.64	. B1
ATOM	1119		ILE	29 29	41.199	37.626	18.834	1.00 33.38	B1
ATOM	1120		ILE	29	42.790 43.503	36.826	20.581	1.00 32.81	B1
ATOM	1121	c	ILE	29	43.135	35.659	19.828	1.00 33.12	B1
ATOM	1122	Ō	ILE	29	42.800	39.669 39.519	18.008 16.818	1.00 33.56	B1
ATOM	1123	N	LEU	30	43.132	40.849		1.00 33.84	B1
ATOM	1124	CA	LEU	30	42.591	42.069	18.624 18.017	1.00 33.60 1.00 34.10	B1
MOTA	1125	CB	LEU	30	41.805	42.837	19.103	1.00 34.10	B1
ATOM	1126	CG	LEU	30	40.805	41.980	19.103	1.00 31.33	B1
MOTA	1127		LEU	30	40.166	42.792	21.065	1.00 30.23	B1
ATOM	1128		LEU	30	39.717	41.460	18.934	1.00 27.41	B1 B1
ATOM	1129	C	LEU	30	43.577	43.006	17.365	1.00 25.50	B1
ATOM	1130	0	LEU	30	44.731	43.105	17.773	1.00 33.03	B1
ATOM	1131	N	THR	31	43.140	43.704	16.340	1.00 37.79	B1
MOTA	1132	CA	THR	31	44.028	44.678	15.724	1.00 37.57	B1
								,	D.T.

MOTA	1133	CB	THR	31	43.492	45.135	14.355	1.00 36.44	Bl
MOTA	1134	OG1	THR	31	42.186	45.710	14.536	1.00 36.56	Bl
MOTA	1135	CG2	THR	31	43.453	43.974	13.400	1.00 34.20	B1
MOTA	1136	C	THR	31	43.988	45.866	16.684	1.00 38.90	B1
ATOM	1137	0	THR	31	43.210	45.852	17.633	1.00 39.30	B1
ATOM	1138	N	ARG	32	44.783	46.912	16.445	1.00 40.92	B1
ATOM	1139	CA	ARG	32	44.761	48.057	17.370	1.00 42.16	B1
ATOM	1140	CB	ARG	32	45.849	49.077	17.034	1.00 43.63	B1
ATOM	1141	CG	ARG	32	46.249	49.896	18.307	1.00 45.88	B1
ATOM	1142	CD	ARG	32	47.069	51.105	17.912	1.00 47.41	B1
ATOM	1143	NE	ARG	32	47.817	50.791	16.700	1.00 49.09	B1
ATOM	1144	cz	ARG	32	49.068	50.357	16.675	1.00 49.50	B1
ATOM	1145	NH1		32	49.733	50.188	17.810	1.00 49.69	B1
ATOM	1146	NH2	ARG	32	49.650				
ATOM	1147		ARG	32		50.097	15.506	1.00 50.68	B1
		C			43.402	48.763	17.353	1.00 42.65	B1
ATOM	1148	0	ARG	32	42.878	49.222	18.391	1.00 41.41	B1
ATOM	1149	N	SER	33	42.838	48.852	16.151	1.00 42.81	B1
ATOM	1150	CA	SER	33	41.550	49.464	16.015	1.00 43.76	Bl
ATOM	1151	CB	SER	33	41.261	49.643	14.540	1.00 43.52	B1
MOTA	1152	OG	SER	33	39.873	49.782	14.386	1.00 46.24	B1
MOTA	1153	C	SER	33	40.438	48.629	16.733	1.00 43.65	B1
MOTA	1154	0	SER	33	39.574	49.182	17.415	1.00 44.48	B1
MOTA	1155	N	GLU	34	40.475	47.305	16.607	1.00 42.94	B1
ATOM	1156	CA	GLU	34	39.470	46.465	17.259	1.00 41.95	B1
ATOM	1157	CB	GLU	34	39.628	45.001	16.835	1.00 40.95	B1
MOTA	1158	CG	GLU	34	39.348	44.750	15.393	1.00 40.15	B1
MOTA	1159	CD	GLU	34	39.605	43.309	14.967	1.00 40.92	B1
MOTA	1160	OE1	GLU	34	40.597	42.695	15.431	1.00 40.90	B1
ATOM	1161	OE2	GLU	34	38.823	42.793	14.150	1.00 40.87	B1
ATOM	1162	C	GLU	34	39.687	46.593	18.753	1.00 41.77	B1
ATOM	1163	0	GLU	34	38.749	46.677	19.535	1.00 41.48	B1
ATOM	1164	И	LEU	35	40.956	46.623	19.125	1.00 42.42	B1
ATOM	1165	CA	LEU	35	41.393	46.745	20.504	1.00 43.24	B1
MOTA	1166	CB	LEU	35	42.904	46.713	20.538	1.00 43.31	B1
ATOM	1167	CG	LEU	35	43.622	45.884	21.580	1.00 43.75	B1
ATOM	1168	CD1	LEU	35	44.944	46.592	21.876	1.00 43.54	B1
ATOM	1169	CD2	LEU	35	42.805	45.720	22.833	1.00 43.33	B1
ATOM	1170	C	LEU	35	40.897	48.053	21.130	1.00 43.93	B1
ATOM	1171	0	LEU	35	40.421	48.060	22.280	1.00 43.01	B1
ATOM	1172	N	ASP	36	41.005	49.157	20.387	1.00 44.72	B1
ATOM	1173	CA	ASP	36	40.522	50.411	20.939	1.00 46.43	B1
ATOM	1174	CB	ASP	36	40.834	51.625	20.047	1.00 46.32	D1
ATOM	1175	CG	ASP	36	42.328	51.962	20.034	1.00 47.18	. B1
ATOM	1176		ASP	36	43.011	51.676	21.042	1.00 47.46	B1
ATOM	1177		ASP	36			19.025	1.00 48.14	B1
			ASP		42.831	52.504	21.131	1.00 47.36	B1
ATOM	1178	C		36	39.040	50.269		1.00 47.38	
MOTA	1179	0	ASP	36	38.519	50.720	22.138		B1
ATOM	1180	И	GLN	37	38.355	49.630	20.183	1.00 47.84	B1
ATOM	1181	CA	GLN	37	36.918	49.445	20.333	1.00 48.02	B1
ATOM	1182	CB	GLN	37	36.354		19.100	1.00 48.62	B1
ATOM	1183	CG	GLN	37	36.416	49.589	17.849	1.00 50.60	B1
ATOM	1184	CD	GLN	37	36.137	48.763	16.597	1.00 51.12	B1
MOTA	1185		GLN	37	35.145	48.050	16.531	1.00 51.75	B1
ATOM	1186		GLN	37	37.023	48.853	15.606	1.00 52.14	B1
ATOM	1187	C	GLN	37	36.585	48.632	21.596	1.00 47.78	B1
ATOM	1188	0	GLN	37	35.640	48.946	22.299	1.0Q 48.37	B1
ATOM	1189	N	TYR	38	37.374	47.603	21.885	1.00 47.54	B1

MOTA	1190	CA	TYR	38	37.161	46.732	23.046	1.00 47.74	Bl
MOTA	1191	CB.	TYR	38	38.165	45.551	22.941	1.00 46.60	Bl
ATOM	1192	CG	TYR	38	38.527	44.738	24.195	1.00 45.26	<b>B1</b>
ATOM	1193	CD1	TYR	38	39.691	45.014	24.905	1.00 44.68	B1
ATOM	1194	CE1	TYR	38	40.084	44.229	25.991	1.00 44.13	B1
MOTA	1195	CD2	TYR	38	37.749	43.647	24.616	1.00 44.67	B1
ATOM	1196	CE2	TYR	38	38.123	42.863	25.703	1.00 43.73	B1
ATOM	1197	CZ	·TYR	38	39.298	43.160	26.382	1.00 44.36	B1
ATOM	1198	ОН	TYR	38	39.717	42.401	27.450	1.00 44.63	B1
ATOM	1199	C	TYR	38	37.287	47.487	24.373	1.00 48.96	Bl
ATOM	1200	ō	TYR	38	36.502	47.282	25.296	1.00 48.92	B1
ATOM	1201	N	TYR	39	38.268	48.377	24.449	1.00 50.35	B1
ATOM	1202	CA	TYR	39	38.539	49.177	25.645	1.00 52.19	B1
ATOM	1203	CB	TYR	39	39.867	49.908	25.465	1.00 52.76	B1
ATOM	1204	CG	TYR	39	41.044	49.009	25.696	1.00 53.28	
ATOM	1205	CD1		39	42.182	49.086	24.901	1.00 53.28	B1
ATOM	1206	CEL		39	43.276	48.261			B1
ATOM	1207	CD2	TYR	39	41.023		25.147	1.00 53.92	Bl
						48.084	26.742	1.00 53.93	B1
ATOM	1208	CE2	TYR	39	42.102	47.267	26.994	1.00 54.12	B1
MOTA	1209	CZ	TYR	39	43.222	47.355	26.204	1.00 54.32	B1
ATOM	1210	ОН	TYR	39	44.295	46.532	26.502	1.00 56.15	B1
ATOM	1211	C	TYR	39	37.467	50.187	26.053	1.00 52.72	B1
MOTA	1212	0	TYR	39	37.457	50.646	27.185	1.00 53.04	B1
MOTA	1213	N	ALA	40	36.570	50.517	25.129	1.00 53.49	B1
MOTA	1214	CA	ALA	40	35.507	51.473	25.379	1.00 53.72	B1
MOTA	1215	CB	ALA	40	35.097	52.154	24.063	1.00 52.69	B1
MOTA	1216	C	ALA	40	34.293	50.818	26.013	1.00 54.49	Bl
ATOM	1217	0	ALA	40	33.388	51.526	26.451	1.00 55.28	B1
MOTA	1218	N	LEU	41	34.268	49.483	26.073	1.00 54.98	<b>B1</b>
MOTA	1219	CA	LEU	41	33.107	48.746	26.622	1.00 55.00	Bl
ATOM	1220	CB	LEU	41	32.825	47.481	25.789	1.00 53.64	Bl
MOTA	1221	CG	LEU	41	33.130	47.485	24.293	1.00 53.38	B1
ATOM	1222	CD1	LEU	41	33.180	46.027	23.794	1.00 52.52	<b>B1</b>
MOTA	1223	CD2	LEU	41	32.103	48.303	23.537	1.00 52.98	<b>B1</b>
ATOM	1224	C	LEU	41	33.224	48.311	28.082	1.00 55.16	B1
MOTA	1225	0	LEU	41	34.318	48.191	28.616	1.00 55.63	B1
ATOM	1226	N	SER	42	32.076	48.041	28.695	1.00 55.74	B1
ATOM	1227	CA	SER	42	31.983	47.578	30.089	1.00 56.51	B1
ATOM	1228	СВ	SER	42	30.520	47.412	30.508	1.00 57.31	B1
ATOM	1229	OG	SER	42	29.991	46.181	29.993	1.00 57.63	B1
ATOM	1230	C	SER	42	32.622	46.208	30.229	1.00 56.49	B1
ATOM	1231	ō	SER	42	32.986	45.575	29.236	1.00 56.57	B1
ATOM	1232	N	ALA	43	32.715	45.734	31.466	1.00 56.33	. B1
ATOM	1233	CA	ALA	43	33.291	44.420	31.713	1.00 56.63	B1
ATOM	1234	СВ	ALA	43	33.418	44.151	33.257	1.00 56.01	B1
ATOM	1235	C	ALA	43	32.439	43.328	31.024	1.00 56.37	B1
ATOM	1236	Ö	ALA	43	32.973	42.344	30.504	1.00 56.24	B1
ATOM	1237	N	ALA	44	31.122		30.995	1.00 56.00	Bl
	1238		ALA			43.511		1.00 55.31	Bl
ATOM		CA		44	30.263	42.517	30.361		B1
ATOM	1239	СВ	ALA	44	28.793	42.867	30.547	1.00 55.66	
ATOM	1240	C	ALA	44	30.583	42.505	28.887	1.00 55.23	B1
ATOM	1241	0	ALA	44	31.264	41.581	28.378	1.00 55.55	B1
MOTA	1242	N	ALA	45	30.083	43.546	28.222	1.00 52.94	B1
MOTA	1243	CA	ALA	45	30.242	43.735	26.799	1.00 51.15	B1
ATOM	1244	CB	ALA	45	29.909	45.174	26.441	1.00 51.88	B1
MOTA	1245	C	ALA	45	31.628	43.379	26.283	1.00 49.53	B1
MOTA	1246	0	ALA	45	31.789	43.067	25.112	1.00 49.20	B1

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MOTA	1247	N	LYS	46	32.630	43.412	27.144	1.00 47.53	-
MOTA	1248	CA	LYS	46	33.972	43.088	26.686	1.00 47.33	B1
MOTA	1249	CB	LYS	46	35.019	43.433	27.731	1.00 46.26	B1
MOTA	1250	CG	LYS	46	35.557	44.825	27.647	1.00 48.50	B1
MOTA	1251	CD	LYS	46	36.731	44.962	28.607	1.00 49.81	B1
ATOM	1252	CE	LYS	46	37.403	46.296	28.457	1.00 52.00	B1
ATOM	1253	NZ	LYS	46	38.669	46.353	29.255	1.00 53.15	B1
ATOM	1254	С	LYS	46	34.206	41.644	26.283	1.00 43.73	B1 B1
MOTA	1255	0	LYS	46	34.819	41.413	25.245	1.00 43.75	
ATOM	1256	N	ASN	47	33.769	40.688	27.107	1.00 41.38	B1 B1
MOTA	1257	CA	ASN	47	34.007	39.285	26.798	1.00 39.96	B1
MOTA	1258	CB	ASN	47	33.735	38.375	28.015	1.00 41.11	B1
ATOM	1259	CG	ASN	47	34.884	38.447	29.069	1.00 45.19	B1
MOTA	1260		. ASN	47	34.648	38.357	30.307	1.00 46.49	B1
MOTA	1261		ASN	47	36.136	38.607	28.584	1.00 44.51	B1
ATOM	1262	C	ASN	47	33.248	38.821	25.561	1.00 37.98	B1
ATOM	1263	0	ASN	47	33.771	38.012	24.780	1.00 36.13	B1
ATOM	1264	N	GLU	48	32.048	39.353	25.351	1.00 36.77	B1
MOTA	1265	CA	GLU	48	31.310	38.951	24.177	1.00 37.17	B1
ATOM	1266	CB	GLU	48	29.812	39.230	24.325	1.00 40.44	B1
ATOM	1267	CG	GLU	48	29.446	40.643	24.622	1.00 44.46	B1
ATOM	1268	CD	GLU	48	28.807	40.796	26.024	1.00 47.35	B1
ATOM	1269	OE1	GLU	48	29.591	40.785	27.020	1.00 48.12	B1
ATOM	1270	OE2	GLU	48	27.546	40.917	26.113	1.00 46.80	B1
ATOM	1271	C	GLU	48	31.884	39.621	22.921	1.00 35.12	Bl
MOTA	1272	0	GLU	48	31.886	39.015	21.866	1.00 34.22	B1
ATOM	1273	N	PHE	49	32.396	40.851	23.042	1.00 33.28	B1
MOTA	1274	CA	PHE	49	33.003	41.492	21.891	1.00 31.67	Bl
ATOM	1275	CB	PHE	49	33.407	42.921	22.201	1.00 31.19	Bl
ATOM	1276	CG	PHE	49	34.157	43.604	21.082	1.00 28.77	Bl
ATOM	1277		PHE	49	33.480	44.281	20.078	1.00 28.58	B1
ATOM	1278		PHE	49	35.531	43.583	21.040	1.00 29.27	B1
ATOM	1279		PHE	49	34.173	44.935	19.041	1.00 26.85	B1
ATOM	1280		PHE	49	36.236	44.245	20.004	1.00 28.19	B1
ATOM	1281	CZ	PHE	49	35.545	44.913	19.017	1.00 26.97	B1
ATOM	1282	C	PHE	49	34.273	40.685	21.527	1.00 30.94	B1
ATOM	1283	0	PHE	49	34.521	40.391	20.353	1.00 29.62	B1
ATOM	1284	И	LEU	5 <b>Q</b>	35.052	40.308	22.540	1.00 29.25	B1
ATOM	1285	CA	LEU	50	36.289	39.561	22.297	1.00 28.26	B1
ATOM	1286	CB	LEU	50	37.112	39.473	23.575	1.00 27.33	B1
ATOM	1287	CG	LEU	50	38.423	38.692	23.483	1.00 28.33	B1
ATOM	1288		LEU	50	39.317	39.237	22.326	1.00 26.30	B1
ATOM	1289		LEU	50	39.121	38.763	24.889	1.00 26.85	B1
ATOM	1290	C	LEU	50	35.956	38.170	21.746	1.00 27.90	B1
ATOM	1291	0	LEU	50	36.501	37.755	20.732	1.00 27.63	Bl
ATOM	1292	N	ALA	51	35.024	37.466	22.388	1.00 26.98	Bl
ATOM	1293	CA	ALA	51	34.645	36.140	21.915	1.00 25.11	B1
ATOM	1294	CB	ALA	51	33.603	35.538	22.857	1.00 23.27	B1
ATOM	1295	C	ALA	51	34.098	36.194	20.453	1.00 24.63	B1
ATOM	1296	0	ALA	51	34.356	35.291	19.621	1.00 23.74	B1
ATOM	1297	N	GLY	52	33.343	37.244	20.147	1.00 24.05	B1
ATOM	1298	CA	GLY	52	32.795	37.346	18.817	1.00 23.42	B1
ATOM	1299	C	GLY	52	33.874	37.557	17.775	1.00 24.52	B1
ATOM	1300	0	GLY	52	33.850	36.942	16.711	1.00 25.82	Bl
ATOM	1301	N	ARG	53	34.833	38.430	18.052	1.00 25.23	B1
ATOM	1302	CA	ARG	53	35.856	38.701	17.061	1.00 26.47	B1
MOTA	1303	CB	ARG	53	36.676	39.970	17.419	1.00 27.84	B1

MOTA	1304	CG	ARG	53	36.193	41.286	16.713	1.00 29.04	Bl
MOTA	1305	CD	ARG	53	34.753	41.748	17.040	1.00 32.70	B1
MOTA	1306	NE	ARG	53	34.323	42.926	16.256	1.00 33.45	B1
MOTA	1307	CZ	ARG	53	33.040	43.280	16.076	1.00 36.40	Bl
ATOM	1308		ARG	53	32.065	42.555	16.620	1.00 37.75	B1
ATOM	1309	NH2	ARG	53	32.696	44.350	15.348	1.00 37.36	B1
ATOM	1310	C	ARG	53	36.727	37.503	16.895	1.00 25.54	B1
ATOM	1311	0	ARG	53	37.185	37.225	15.798	1.00 25.97	B1
ATOM	1312	N	PHE	54	36.971	36.790	17.989	1.00 25.78	B1
ATOM	1313	CA	PHE	54	37.782	35.573	17.916	1.00 24.70	Bl
ATOM	131,4	CB	PHE	54	37.986	34.967	19.304	1.00 23.11	B1
MOTA	1315	CG	PHE	54	38.758	33.676	19.275	1.00 23.50	Bl
MOTA	1316		PHE	54	38.105	32.443	19.349	1.00 23.28	Bl
MOTA	1317		PHE	54	40.143	33.685	19.117	1.00 24.40	B1
ATOM	1318		PHE	54	38.818	31.251	19.274	1.00 23.13	Bl
ATOM	1319	CE2	PHE	54	40.874	32.486	19.037	1.00 23.88	Bl
ATOM	1320	CZ	PHE	54	40.189	31.262	19.120	1.00 23.28	B1
MOTA	1321	C	PHE	54	37.030	34.564	17.021	1.00 24.85	Bl
MOTA	1322	0	PHE	54	37.614	33.926	16.151	1.00 25.96	B1
MOTA	1323	N	ALA	55	35.723	34.433	17.238	1.00 23.60	<b>B1</b>
MOTA	1324	CA	ALA	55	34.921	33.500	16.443	1.00 22.67	Bl
ATOM	1325	CB	ALA	55	33.412	33.474	16.986	1.00 19.81	Bl
MOTA	1326	C	ALA	55	34.957	33.917	14.955	1.00 21.88	Bl
ATOM	1327	0	ALA	55	35.168	33.087	14.064	1.00 22.44	Bl
ATOM	1328	И	ALA	56	34.750	35.198	14.678	1.00 21.17	Bl
ATOM	1329	CA	ALA	56	34.773	35.644	13.281	1.00 21.94	Bl
MOTA	1330	CB	ALA	56	34.447	37.053	13.217	1.00 21.38	B1
MOTA	1331	C	ALA	5 <b>6</b>	36.141	35.385	12.634	1.00 23.12	B1
MOTA	1332	0	ALA	56	36.212	35.050	11.455	1.00 25.01	B1
MOTA	1333	И	LYS	57	37.225	35.473	13.411	1.00 22.35	Bl
MOTA	1334	CA	LYS	57	38.527	35.253	12.814	1.00 23.06	B1
MOTA	1335	CB	LYS	5 <b>7</b>	39.679	35.933	13.598	1.00 21.11	B1
MOTA	1336	CG	LYS	57	39.543	37.437	13.622	1.00 19.67	B1
ATOM	1337	CD	LYS	57	40.779	38.119	14.201	1.00 19.94	B1
ATOM	1338	CE	LYS	57	40.524	39.636	14.269	1.00 21.28	B1
MOTA	1339	NZ	LYS	57	41.711	40.419	14.731	1.00 21.24	B1
MOTA	1340	C	LYS	57	38.794	33.786	12.657	1.00 23.67	B1
ATOM	1341	0	LYS	57	39.442	33.390	11.703	1.00 24.22	B1
MOTA	1342	N	GLU	58	38.314	32.966	13.581	1.00 23.83	B1
MOTA	1343	CA	GLU	58	38.519	31.539	13.370	1.00 24.27	B1
ATOM	1344	CB	GLU	58	38.056	30.755	14.590	1.00 26.87	Bl
ATOM	1345	CG	GLU	58	39.034	30.808	15.772	1.00 32.81	Bl
ATOM	1346	CD	GLU	58	40.209	29.836	15.554	1.00 36.83	B1
MOTA	1347		GLU	58	39.913	28.628	15.293	1.00 40.26	B1
ATOM	1348		GLU	58	41.398	30.262	15.628	1.00 36.84	B1
MOTA	1349	C	GLU	58	37.718	31.083	12.104	1.00 22.49	<b>B1</b>
MOTA	1350	0	GLU	58	38.230	30.372	11.253	1.00 21.87	B1
MOTA	1351	N	ALA	59	36.488	31.542	11.971	1.00 20.35	B1
MOTA	1352	CA	ALA	59	35.684	31.094	10.867	1.00 21.36	B1
ATOM	1353	CB	ALA	59	34.240	31.652	11.021	1.00 19.54	B1
MOTA	1354	C	ALA	59	36.326	31.557	9.513	1.00 22.84	Bl
ATOM	1355	0	ALA	59	36.373	30.805	8.536	1.00 22.04	Bl
ATOM	1356	N	PHE	60	36.795	32.801	9.490	1.00 22.02	B1
MOTA	1357	CA	PHE	60	37.420	33.345	8.316	1.00 22.50	B1
MOTA	1358	CB	PHE	60	37.822	34.807	8.572	1.00 23.42	B1
MOTA	1359	CG	PHE	60	38.562	35.379	7.442	1.00 23.85	B1
MOTA	1360	CD1	PHE	60	37.867	35.934	6.361	1.00 23.20	Bl

MOTA	1361		PHE	60	39.942	35.274	7.402	1.00 23.36	B1
ATOM	1362		PHE	60	38.535	36.377	5.240	1.00 24.53	B1
MOTA	1363	CE2	PHE	60	40.662	35.710	6.283	1.00 26.01	B1
ATOM	1364	CZ	PHE	60	39.936	36.277	5.170	1.00 24.87	B1
MOTA	1365	C	PHE	60	38.659	32.529	7.946	1.00 22.51	B1
ATOM	1366	0	PHE	60	38.842	32106	6.776	1.00 22.37	B1
ATOM	1367	И	SER	61	39.521	32.301	8.931	1.00 22.91	B1
ATOM	1368	CA	SER	61	40.732	31.509	8.660	1.00 23.52	B1
MOTA	1369	CB	SER	61	41.560	31.290	9.953	1.00 23.83	B1
ATOM	1370	OG	SER	61	40.958	30.284	10.809	1.00 25.53	B1
ATOM	1371	C	SER	61.	40.343	30.136	8.063	1.00 23.43	B1
ATOM	1372	0	SER	61	41.105	29.571	7.304	1.00 24.15	B1
ATOM	1373	N	LYS	62	39.167	29.599	8.405	1.00 22.88	B1
ATOM	1374	CA	LYS	62	38.758	28.286	7.858	1.00 24.47	B1
MOTA	1375	CB	LYS	62	37.679	27.642	8.757	1.00 25.68	B1
MOTA	1376	CG	LYS	62	38.126	27.199	10.182	1.00 29.50	B1
ATOM	1377	CD	LYS	62	36.846	26.907	11.071	1.00 32.07	B1
ATOM	1378	CE	LYS	62	37.165	26.114	12.368	1.00 33.86	B1
ATOM	1379	NZ	LYS	62	36.250	26.459	13.585	1.00 36.00	B1
ATOM	1380	С	LYS	62	38.225	28.428	6.398	1.00 24.82	B1
ATOM	1381	0	LYS	62	38.453	27.602	5.552	1.00 23.97	B1
ATOM	1382	N	ALA	63	37.481	29.490	6.151	1.00 25.40	B1
MOTA	1383	CA	ALA	63	36.950	29.827	4.839	1.00 26.03	B1
MOTA	1384	CB	ALA	63	36.122	31.106	4.995	1.00 23.81	B1
MOTA	1385	C	ALA	63	38.193	30.109	3.936	1.00 26.63	B1
MOTA	1386	0	ALA	63	38.228	29.752	2.774	1.00 25.61	B1
MOTA	1387	N	PHE	64	39.186	30.795	4.498	1.00 27.51	B1
ATOM	1388	CA	PHE	64	40.422	31.136	3.772	1.00 29.24	B1
ATOM	1389	CB	PHE	64	41.315	32.016	4.664	1.00 29.05	B1
MOTA	1390	CG	PHE	64	42.531	32.577	3.977	1.00 30.71	Bl
MOTA	1391	CD1	PHE	64	42.432	33.666	3.092	1.00 29.37	B1
ATOM	1392	CD2	PHE	64	43.808	32.082	4.293	1.00 30.61	B1
ATOM	1393	CE1	PHE	64	43.594	34.243	2.552	1.00 29.64	B1
ATOM	1394	CE2	PHE	64	44.978	32.657	3.761	1.00 30.30	B1
MOTA	1395	CZ	PHE	64	44.879	33.744	2.891	1.00 29.10	B1
MOTA	1396	C	PHE	64	41.147	29.851	3.386	1.00 30.09	B1
ATOM	1397	0	PHE	64	41.897	29.864	2.444	1.00 30.68	B1
ATOM	1398	N	GLY	65	40.926	28.756	4.139	1.00 30.98	B1
ATOM	1399	CA	GLY	65	41.527	27.472	3.815	1.00 31.37	B1
ATOM	1400	C	GLY	65	42.753	26.964	4.562	1.00 33.20	B1
ATOM	1401	0	GLY	65	43.211	25.837	4.342	1.00 33.31	B1
MOTA	1402	N	THR	66	43.274	27.738	5.498	1.00 32.35	B1
MOTA	1403	CA	THR	66	44.491	27.293	6.148	1.00 32.11	B1
MOTA	1404	CB	THR	66	45.613	28.232	5.794	1.00 30.57	B1
MOTA	1405	0G1		66	45.290	29.511	6.364	1.00 28.59	B1
MOTA	1406	CG2		· 66	45.747	28.354	4.300	1.00 30.33	<b>B1</b>
MOTA	1407	C	THR	66	44.470	27.332	7.652	1.00 33.04	B1
MOTA	1408	0	THR	66	45.398	26.826	8.260	1.00 33.53	<b>B1</b>
MOTA	1409	N	GLY	67	43.459	27.992	8.232	1.00 33.38	<b>B1</b>
MOTA	1410	CA	GLY	67	43.391	28.178	9.668	1.00 33.05	B1
MOTA	1411	C	GLY ·	67	44.432	29.247	9.963	1.00 33.13	B1
MOTA	1412	0	GLY	67	45.166	29.634	9.055	1.00 31.39	B1
ATOM	1413	N	ILE	68	44.479	29.728	11.207	1.00 33.97	B1
MOTA	1414	CA	ILE	68	45.444	30.751	11.657	1.00 33.80	B1
ATOM	1415	CB	ILE	68	45.022	31.343	13.056	1.00 32.72	B1
ATOM	1416	CG2		68	46.167	32.173	13.668	1.00 30.94	B1
ATOM	1417	CG1	ILE	68	43.746	32.163	12.916	1.00 32.01	Bl

MOTA	1418	CD1	ILE	68	43.901	33.419	12.019	1.00 29.71	81
ATOM	1419	C	ILE	68	46.855	30.146	11.788	1.00 35.01	B1
MOTA	1420	0	ILE	68	47.015	29.005	12.185	1.00 34.63	B1
MOTA	1421	N	GLY	69	47.874	30.926	11.429	1.00 36.79	B1
MOTA	1422	CA	GLY	69	49.249	30.469	11.521	1.00 38.01	B1
ATOM	1423	C	GLY	69	50.230	31.161	10.578	1.00 39.61	B1
MOTA	1424	0	GLY	69	50.264	32.393	10.460	1.00 38.05	B1
MOTA	1425	N	ALA	70	51.023	30.327	9.900	1.00 41.65	B1
MOTA	1426	CA	ALA	70	52.024	30.765	8.944	1.00 43.14	B1
MOTA	1427	CB	ALA	70	52.822	29.536	8.415	1.00 43.37	Bl
ATOM	1428	C	ALA	70	51.432	31.568	7.775	1.00 43.45	B1
MOTA	1429	0	ALA	70	51.935	32.625	7.446	1.00 44.06	Bl
ATOM	1430	N	GLN	71	50.345	31.101	7.172	1.00 43.42	B1
ATOM	1431	CA	GLN	71	49.782	31.872	6.033	1.00 43.43	B1
ATOM	1432	CB	GLN	71	49.130	30.925	5.004	1.00 45.18	B1
ATOM	1433	CG	GLN	71	50.095	29.867	4.411	1.00 48.80	B1
ATOM	1434	CD	GLN	71	49.429	28.485	4.153	1.00 51.39	B1
ATOM	1435	OE1	GLN	71	49.030	28.175	3.023	1.00 54.02	B1
ATOM	1436	NE2	GLN	71	49.308	27.663	5.202	1.00 50.54	B1
ATOM	1437	C	GLN	71	48.776	32.960	6.449	1.00 40.86	B1
ATOM	1438	0	GLN	71	48.323	33.754	5.614	1.00 39.98	B1
MOTA	1439	N	LEU	72	48.480	33.045	7.744	1.00 37.98	B1
ATOM	1440	CA	LEU	72	47.478	34.009	8.190	1.00 36.26	B1
ATOM	1441	CB	LEU	72	46.102	33.522	7.777	1.00 34.40	B1
MOTA	1442	CG	LEU	72	44.902	34.399	8.050	1.00 32.85	B1
ATOM	1443	CD1	LEU	72	44.843	35.468	6.992	1.00 32.54	B1
ATOM	1444	CD2	LEU	72	43.629	33.535	8.011	1.00 31.85	B1
MOTA	1445	С	LEU	72	47.472	34.216	9.682	1.00 36.26	B1
ATOM	1446	0	LEU	72	47.304	33.262	10.467	1.00 35.99	B1
MOTA	1447	N	SER	73	47.615	35.474	10.052	1.00 35.30	B1
MOTA	1448	CA	SER	73	47.639	35.883	11.439	1.00 35.78	B1
MOTA	1449	CB	SER	73	48.729	36.924	11.647	1.00 35.81	B1
MOTA	1450	OG	SER	73	48.610	37.488	12.952	1.00 38.65	B1
MOTA	1451	C	SER	73	46.321	36.512	11.889	1.00 35.17	B1
ATOM	1452	0	SER	73	45.537	36.964	11.061	1.00 35.80	B1
MOTA	1453	N	PHE	74	46.101	36.549	13.200	1.00 34.10	Bl
ATOM	1454	CA	PHE	74	44.908	37.177	13.750	1.00 33.89	B1
ATOM	1455	CB	PHE	74	44.890	37.046	15.278	1.00 32.52	Bl
ATOM	1456	CG	PHE	74	44.502	35.675	15.764	1.00 32.11	B1
ATOM	1457	CD1	PHE	74	43.182	35.231	15.658	1.00 31.77	B1
ATOM	1458	CD2	PHE	74	45.460	34.806	16.306	1.00 31.78	Bl
ATOM	1459	CE1	PHE	74	42.819	33.934	16.090	1.00 32.33	B1
ATOM	1460	CE2	PHE	74	45.108	33.502	16.745	1.00 31.95	Bl
ATOM	1461	CZ	PHE	74	43.780	33.066	16.631	1.00 30.79	B1
ATOM	1462	C	PHE	74	44.986	38.685	13.364	1.00 34.20	B1
ATOM	1463	0	PHE	74	43.953	39.338	13.079	1.00 31.60	B1
ATOM	1464	N	GLN	75	46.228	39.201	13.334	1.00 34.11	Bl
ATOM	1465	CA	GLN	75	46.485	40.607	13.032	1.00 34.43	B1
ATOM	1466	СВ	GLN	75	47.942	40.950	13.352	1.00 36.57	B1
ATOM	1467	CG	GLN	75	48.293	40.925	14.862	1.00 35.45	B1
ATOM	1468	CD	GLN	75	47.372	41.779	15.674	1.00 36.29	Bl
ATOM	1469		GLN	75	46.929	41.389	16.775	1.00 36.74	B1
ATOM	1470		GLN	75	47.069	42.966	15.154	1.00 37.01	B1
ATOM	1471	C	GLN	75	46.165	41.006	11.608	1.00 33.88	B1
ATOM	1472	ō	GLN	75	45.993	42.171	11.339	1.00 34.13	B1
ATOM	1473	N	ASP	76	46.080	40.050	10.698	1.00 33.62	B1
ATOM	1474	CA	ASP	76	45.739	40.050	9.301	1.00 33.82	B1
		~~~			ZJ./JJ	40.334	3.3UL	1.00 33.02	PI

MOTA	1475	CB	ASP	76	46.322	39.270	8.395	1.00 35.57	B1
MOTA	1476	CG	ASP	76	47.852	39.128	8.534	1.00 37.11	B1
MOTA	1477		ASP	76	48.552	40.144	8.846	1.00 36.68	B1
ATOM	1478		ASP	76	48.328	37.987	8.309	1.00 37.48	B1
ATOM	1479	C	ASP	76	44.210	40.422	9.012	1.00 34.06	B1
ATOM	1480	0	ASP	76	43.787	40.732	7.888	1.00 32.89	<b>B1</b>
ATOM	1481	N	ILE	77	43.398	40.089	10.018	1.00 33.00	<b>B1</b>
ATOM	1482	CA	ILE	77	41.955	40.077	9.870	1.00 33.14	B1
ATOM	1483	CB	ILE	77	41.341	38.684	10.249	1.00 31.81	Bl
ATOM	1484	CG2	ILE	77	39.856	38.611	9.840	1.00 30.14	<b>B1</b>
ATOM	1485		ILE	77	42.099	37.549	9.512	1.00 31.15	<b>B1</b>
ATOM ATOM	1486 1487	CD1	ILE ILE	77	41.911	36.136	10.200	1.00 29.63	B1
ATOM	1488	С О	ILE	77 77	41.355	41.143	10.764	1.00 34.04	B1
ATOM	1489	N	GLU	77 78	41.608	41.201	11.980	1.00 34.59	B1
ATOM	1499	CA	GLU	78 78	40.571 39.948	42.014	10.160	1.00 34.50	B1
ATOM	1491	CB	GLU	78	40.631	43.026 44.366	10.950 10.676	1.00 35.99	B1
ATOM	1492	CG	GLU	78	40.066	45.544	11.396	1.00 38.42 1.00 41.11	B1
ATOM	1493	CD	GLU	78	41.027	46.714	11.296	1.00 41.11	B1
ATOM	1494		GLU	78	41.755	46.939	12.283	1.00 44.57	B1 B1
ATOM	1495	OE2		78	41.081	47.377	10.223	1.00 44.87	B1
ATOM	1496	C	GLU	78	38.454	43.114	10.676	1.00 36.02	B1
ATOM	1497	o	GLU	78	37.994	43.186	9.522	1.00 36.20	B1
ATOM	1498	N	ILE	.79	37.708	43.094	11.758	1.00 35.68	B1
ATOM	1499	CA	ILE	79	36.296	43.225	11.696	1.00 37.08	B1
ATOM	1500	CB	ILE	79	35.639	42.374	12.814	1.00 36.74	B1
ATOM	1501	CG2	ILE	79 ·	34.146	42.704	12.920	1.00 36.28	B1
MOTA	1502	CG1	ILE	79	35.822	40.878	12.489	1.00 36.49	B1.
MOTA	1503	CD1	ILE	79	37.253	40.448	12.415	1.00 37.09	B1
MOTA	1504	C	ILE	79	35.970	44.714	11.870	1.00 38.48	B1
ATOM	1505	0	ILE	79	36.470	45.350	12.795	1.00 37.73	Bl
MOTA	1506	N	ARG	80	35.185	45.273	10.953	1.00 40.54	Bl
MOTA	1507	CA	ARG	80	34.776	46.679	11.031	1.00 43.90	B1
ATOM	1508	CB	ARG	80	35.337	47.451	9.842	1.00 44.69	Bl
ATOM	1509	CG	ARG	80	36.851	47.544	9.830	1.00 46.15	B1
ATOM	1510	CD	ARG	80	37.368	48.230	8.579	1.00 47.22	B1
ATOM	1511	NE	ARG	80	38.813	48.036	8.469	1.00 48.93	B1
ATOM	1512	CZ	ARG	80	39.512	48.260	7.365	1.00 49.88	B1
ATOM	1513	NHl	ARG	80	38.887	48.692	6.270	1.00 49.30	B1
MOTA	1514		ARG	80	40.828	48.046	7.351	1.00 49.32	B1
ATOM	1515	C	ARG	80	33.242	46.839	11.048	1.00 46.39	B1
ATOM ATOM	1516 1517	N O	ARG ALA	80	32.493	45.980	10.556	1.00 46.33	B1
ATOM	1518	CA	ALA	81	32.770	47.949	11.607	1.00 49.26	B1
ATOM	1519	CB	ALA	81 81	31.331 30.969	48.203	11.671 13.018	1.00 52.06 1.00 51.83	B1
ATOM	1520	C	ALA	81	31.018	48.850 49.136	10.509	1.00 51.83	B1 B1
ATOM	1521	o	ALA	81 :			10.303	1.00 54.91	B1
ATOM	1522	И	ASP	82	29.882	50.014 48.956	9.846	1.00 55.55	B1
ATOM	1523	CA	ASP	82	29.580	49.823	8.720	1.00 58.10	B1.
ATOM	1524	CB	ASP	82	28.899	49.023	7.606	1.00 57.68	B1
ATOM	1525	CG	ASP	82	27.483	48.625	7.966	1.00 57.85	B1
ATOM	1526		ASP	82	26.738	48.149	7.077	1.00 57.82	Bl
ATOM	1527		ASP	82	27.119	48.789	9.151	1.00 57.88	Bl
ATOM	1528	c	ASP	82	28.691	51.021	9.099	1.00 59.84	B1
ATOM	1529	ō	ASP	82	28.675	51.469	10.244	1.00 60.02	B1
ATOM	1530	N	GLN	83	27.964	51.538	8.107	1.00 61.97	B1
ATOM	1531	CA	GLN	83	27.035	52.666	8.293	1.00 63.65	B1

ATOM	1532	CB	GLN	83	26.184	52.848	7.031	1.00 64.43	Bl
MOTA	1533	CG .		83	27.006	52.812	5.757	1.00 66.77	B1
ATOM	1534	CD	GLN	83	26.149	52.707	4.501	1.00 68.23	B1
ATOM	1535	OE1	GLN	83	25.367	53.619	4.188	1.00 68.35	Bl
ATOM	1536	NE2	GLN	83	26.296	51.587	3.766	1.00 68.89	B1
ATOM	1537	С	GLN	83	26.101	52.378	9.479	1.00 63.85	B1
ATOM	1538	0	GLN	83	26.173	53.032	10.534	1.00 63.94	B1
ATOM	1539	N	ASN	84	25.233	51.387	9.301	1.00 63.70	B1
ATOM	1540	CA	ASN	84	24.304	51.037	10.353	1.00 63.32	B1
MOTA	1541	CB	ASN	84	23.000	50.557	9.737	1.00 64.23	B1
ATOM	1542	CG	ASN	84	21.798	51.287	10.326	1.00 65.77	B1
ATOM	1543	OD1	ASN	84	21.424	52.388	9.867	1.00 65.94	B1
ATOM	1544	ND2	ASN	84	21.204	50.699	11.376	1.00 66.01	B1
MOTA	1545	C	ASN	84	24.771	50.040	11.429	1.00 62.56	B1
ATOM	1546	0	ASN	84	23.942	49.406	12.103	1.00 62.52	B1
MOTA	1547	N	GLY	85	26.084	49.874	11.581	1.00 61.17	B1
ATOM	1548	CA	GLY	85	26.580	48.986	12.626	1.00 59.18	B1
ATOM	1549	C	GLY	85	26.957	47.538	12.336	1.00 57.65	
ATOM	1550	0	GLY	85	27.729	46.943	13.108	1.00 57.89	B1
ATOM	1551	N	ALA	86	26.420	46.952	11.269	1.00 57.89	B1
ATOM	1552	CA	ALA	86	26.739	45.563	10.911	1.00 53.17	B1
ATOM	1553	СВ	ALA	86	25.931	45.151	9.650	1.00 52.68	B1
ATOM	1554	C	ALA	86	28.278	45.347	10.687	1.00 52.68	B1
ATOM	1555	0	ALA	86	29.000	46.268	10.262		B1
ATOM	1556	N	PRO	87	28.784	44.130	10.262	1.00 51.32	B1
ATOM	1557	CD	PRO	87	27.948	43.003	11.480	1.00 49.44 1.00 48.99	B1
MOTA	1558	CA	PRO	87	30.201	43.717	10.868	1.00 46.89	B1
ATOM	1559	СВ	PRO	87	30.310	42.543			B1
ATOM	1560	CG	PRO	87	28.943	41.819	11.836	1.00 47.60	B1
ATOM	1561	C	PRO	87	30.560	43.267	11.567 9.464	1.00 48.65	B1
ATOM	1562	ō	PRO	87	29.740	42.683		1.00 44.00	B1
ATOM	1563	N	TYR	88	31.773	43.575	8.758 9.043	1.00 43.26	B1
ATOM	1564	CA	TYR	88	32.244	43.126		1.00 41.45	B1
ATOM	1565	CB	TYR	88	31.843	44.102	7.740	1.00 39.15	B1
ATOM	1566	CG	TYR	88	32.482	45.487	6.590	1.00 39.61	B1
ATOM	1567	CD1		88	33.675	45.743	6.604	1.00 41.06	B1
ATOM	1568	CE1	TYR	88	34.313		5.894	1.00 41.16	B1
ATOM	1569	CD2	TYR	88		47.007	5.953	1.00 41.19	B1
ATOM	1570	CE2	TYR	88	31.934	46.533	7.368	1.00 41.56	B1
ATOM	1571	CZ	TYR	88	32.567	47.807	7.440	1.00 41.61	B1
ATOM	1572	OH	TYR	88	33.756	48.024	6.727	1.00 42.13	B1
ATOM			TYR		34.396	49.247	6.800	1.00 43.16	B1
ATOM	1573 1574	0	TYR	88	33.744	42.976	7.937	1.00 36.73	B1
ATOM	1575	N	ILE	88	34.324	43.493	8.883	1.00 34.70	B1
ATOM	1576			89	34.360	42.263	7.029	1.00 35.89	B1
MOTA		CA	ILE	89	35.757	41.973	7.131	1.00 35.67	Bl
ATOM	1577	CB	ILE	89	35.961	40.450	7.207	1.00 35.14	B1
ATOM	1578	CG2		89	37.473	40.080	6.887	1.00 33.43	Bl
	1579	CG1		89	35.493	39.959	8.569	1.00 33.89	B1
ATOM	1580	CD1		89	35.498	38.495	8.693	1.00 34.14	Bl
ATOM	1581	C	ILE	89	36.706	42.462	6.060	1.00 36.44	B1
ATOM	1582	0	ILE	89	36.451	42.305	4.864	1.00 36.42	B1
ATOM	1583	N	ILE	90	37.837	42.974	6.527	1.00 36.77	B1
ATOM	1584	CA	ILE	90	38.917	43.418	5.652	1.00 37.18	Bl
ATOM	1585	CB	ILE	90	39.256	44.903	5.835	1.00 37.91	B1
ATOM	1586	CG2		90	40.363	45.286	4.829	1.00 39.62	Bl
MOTA	1587	CG1		90	38.033	45.775	5.513	1.00 38.16	Bl
ATOM	1588	CD1	ILE	90	37.522	45.595	4.070	1.00 35.21	B1

ATOM	1589	С	ILE	90	40.132	42.593	6.034	1.00 36.19	Bl
ATOM	1590	O .		9 <b>0</b>	40.564	42.623	7.166	1.00 36.53	B1
ATOM	1591	И	CYS	91	40.621	41.804	5.092	1.00 35.99	B1
ATOM	1592	CA	CYS	91	41.776	40.955	5.323	1.00 35.74	B1
ATOM	1593	CB	CYS	91	41.455	39.490	5.037	1.00 35.10	Bl
ATOM	1594	SG	CYS	91	42.926	38.466	5.170	1.00 33.12	B1
ATOM	1595	C	CYS	91	42.920	41.359	4.415	1.00 36.16	Bl
ATOM	1596	0	CYS	91	42.750	41.390	3.189	1.00 35.07	B1
ATOM	1597	N	THR	92	44.085	41.591	5.024	1.00 36.82	B1
ATOM	1598	CA	THR	92	45.287	42.019	4.300	1.00 38.35	B1
ATOM	1599	CB	THR	92	46.507	42.197	5.248	1.00 38.75	Bl
ATOM	1600	OG1		92	46.761	40.963	5.936	1.00 37.76	Bl
ATOM	1601	CG2	THR	92	46.263	43.298	6.272	1.00 39.01	B1
ATOM	1602	C	THR	92	45.716	41.027	3.231	1.00 39.26	Bl
ATOM ATOM	1603 1604	0	THR	92	46.323	41.413	2.264	1.00 39.63	B1
ATOM	1605	N CA	LYS LYS	93	45.407	39.745	3.421	1.00 39.79	B1
ATOM	1605	CB		93	45.810	38.723	2.484	1.00 39.52	B1
ATOM	1607	CG	LYS LYS	93	46.010	37.393	3.198	1.00 40.17	B1
ATOM	1607			93	47.006	37.426	4.332	1.00 40.94	B1
ATOM	1609	CD	LYS LYS	93	48.307	38.081	3.926	1.00 41.78	B1
ATOM	1610	NZ	LYS	93	49.388	37.905	4.982	1.00 42.27	Bl
ATOM	1611	C	LYS	93	50.633	38.699	4.664	1.00 44.42	B1
ATOM	1612			93	44.867	38.495	1.341	1.00 39.75	B1
		0	LYS	93	45.155	37.671	0.493	1.00 39.68	B1
ATOM ATOM	1613 1614	N	LEU LEU	94	43.748	39.203	1.304	1.00 40.01	B1
ATOM	1615	CA CB		94	42.774	39.014	0.217	1.00 41.18	B1
ATOM	1616	CG	LEU LEU	94	41.353	38.899	0.778	1.00 40.88	B1
ATOM				94	40.856	37.581	1.350	1.00 40.77	B1
ATOM	1617 1618		LEU	94	39.413	37.749	1.726	1.00 39.19	B1
ATOM	1619	CD2	LEU	94	41.054	36.453	0.312	1.00 39.78	B1
ATOM	1620		LEU	94	42.718	40.145	-0.806	1.00 41.93	B1
ATOM	1621	N O	LEU SER	94	42.764	41.313	-0.438	1.00 42.74	B1
ATOM	1622	CA	SER	95	42.526	39.815	-2.072	1.00 42.58	B1
ATOM	1623	CB	SER	95 95	42.421	40.876	-3.069	1.00 42.96	B1
ATOM	1624	OG	SER	95	43.778	41.109	-3.754	1.00 43.94	B1
ATOM	1625	C	SER	95	44.020 41.379	40.115	-4.746	1.00 43.87	B1
ATOM	1626	0	SER	95	40.905	40.672	-4.150	1.00 42.89	B1
ATOM	1627	N	GLN	96		41.627	-4.730	1.00 44.24	B1
ATOM	1628	CA	GLN	96	41.009	39.450 39.325	-4.471	1.00 43.07 1.00 42.39	B1
ATOM	1629	CB	GLN	96	40.750	38.755	-5.561 -6.780	1.00 42.39	B1
ATOM	1630	CG	GLN	96	41.943	39.613	-7.243	1.00 47.44	B1
ATOM	1631	CD	GLN	96	41.569	40.542	-8.395	1.00 47.44	B1 B1
ATOM	1632		GLN	96	42.357	41.411	-8.776	1.00 49.80	B1
ATOM	1633		GLN	96	40.363	40.344	-8.977	1.00 49.86	-
ATOM	1634	C	GLN	96	38.854	38.456	-5.173	1.00 49.46	B1 B1
ATOM	1635	o	GLN	96	38.375	37.620	-5.947	1.00 40.35	B1
ATOM	1636	N	ALA	97	38.367	38.690	-3.962	1.00 38.47	B1
ATOM	1637	CA	ALA	97	37.270	37.906	-3.429	1.00 36.12	B1
ATOM	1638	СВ	ALA	97	37.845	36.736	-2.643	1.00 34.36	B1
ATOM	1639	C	ALA ··	97	36.388	38.735	-2.535	1.00 35.07	B1
ATOM	1640	ō	ALA	97	36.870	39.615	-1.833	1.00 36.55	Bl
ATOM	1641	N	ALA	98	35.092	38.472	-2.550	1.00 38.33	B1
ATOM	1642	CA	ALA	98	34.201	39.183	-2.550	1.00 33.28	B1
ATOM	1643	CB	ALA	98				1.00 31.74	B1
ATOM	1644	C	ALA	98	32.803	39.328	-2.228	1.00 30.40	B1
ATOM	1645	0	ALA		34.130	38.316	-0.337		B1
71.01.1	TO 43	•	ALIA	98	34.182	37.094	-0.387	1.00 28.07	PI

MOTA	1646	N	VAL	99	33.978	38.966	0.799	1.00 30.22	<b>D</b> 1
MOTA	1647		VAL	99	33.900	38.260	2.058	1.00 30.56	B1 B1
MOTA	1648	CB	VAL	99	35.113	38.595	2.968	1.00 30.62	B1
ATOM	1649		. VAL	99	35.074	37.747	4.264	1.00 29.52	B1
ATOM	1650	CG2		99	36.397	38.287	2.246	1.00 31.07	B1
ATOM	1651	C	VAL	99	32.621	38.611	2.814	1.00 30.85	B1
ATOM	1652	0	VAL	99	32.270	39.801	2.952	1.00 30.29	B1
ATOM	1653	N	HIS	100	31.932	37.576	3.300	1.00 30.10	B1
ATOM	1654	CA	HIS	100	30.719	37.792	4.111	1.00 30.30	B1
ATOM	1655	CB	HIS	100	29.465	37.206	3.469	1.00 30.39	B1
MOTA	1656	CG	HIS	100	29.121	37.824	2.161	1.00 34.23	B1
ATOM ATOM	1657		HIS	100	29.355	37.408	0.894	1.00 34.42	Bl
ATOM	1658 1659		HIS	100	28.564	39.083	2.062	1.00 34.61	B1
ATOM	1660		HIS	100	28.476	39.420	0.787	1.00 36.03	B1
ATOM	1661	C	HIS	100	28.950	38.425	0.060	1.00 36.35	Bl
ATOM	1662	0	HIS	100	30.869	37.141	5.477	1.00 29.01	Bl
ATOM	1663	И	VAL	100 101	31.357	35.977	5.612	1.00 28.01	B1
ATOM	1664	CA	VAL	101	30.390	37.880	6.466	1.00 27.15	B1
ATOM	1665	CB	VAL	101	30.432	37.420	7.803	1.00 27.02	Bl
ATOM	1666		VAL	101	31.533 31.179	38.118	8.577	1.00 26.29	Bl
ATOM	1667		VAL	101	31.724	39.597	8.765	1.00 24.61	B1
ATOM	1668	C	VAL	101	29.146	37.451	9.899	1.00 24.54	Bl
ATOM	1669	ō	VAL	101	28.482	37.662	8.539	1.00 28.14	B1
ATOM	1670	N	SER	102	28.766	38.698 36.707	8.356	1.00 29.45	B1
ATOM	1671	CA	SER	102	27.616	36.707	9.379	1.00 28.04	B1
MOTA	1672	CB	SER	102	26.399	36.166	10.208 9.718	1.00 28.42	B1
MOTA	1673	OG	SER	102	25.295	36.440	10.575	1.00 27.56 1.00 29.02	B1
ATOM	1674	C	SER	102	28.060	36.563	11.635	1.00 29.02	B1
ATOM	1675	0	SER	102	28.699	35.524	11.824	1.00 28.83	B1
MOTA	1676	N	ILE	103	27.749	37.392	12.630	1.00 28.23	B1
MOTA	1677	CA	ILE	103	28.156	37.096	13.994	1.00 29.90	B1 B1
MOTA	1678	CB	ILE	103.	29.152	38.131	14.536	1.00 30.84	B1
ATOM	1679	CG2	ILE	103	29.511	37.772	16.050	1.00 32.46	B1
ATOM	1680	CG1	ILE	103	30.430	38.125	13.682	1.00 30.85	B1
MOTA	1681		ILE	103	31.412	39.173	14.073	1.00 30.47	B1
MOTA	1682	C	ILE	103	26.972	37.048	14.933	1.00 30.17	B1
MOTA	1683	0	ILE	103	26.145	37.944	14.946	1.00 30.48	B1
ATOM	1684	N	THR	104	26.866	36.004	15.731	1.00 30.81	B1
ATOM	1685	CA	THR	104	25.712	35.941	16.635	1.00 31.45	B1
ATOM	1686	CB	THR	104	24.677	34.929	16.131	1.00 31.80	Bl
ATOM	1687		THR	104	23.467	35.108	16.863	1.00 32.62	Bl
MOTA	1688	CG2	THR	104	25.190	33.488	16.319	1.00 30.80	B1
ATOM	1689	C	THR	104	26.143	35.562	18.052	1.00 31.67	<b>B1</b>
ATOM	1690	0	THR	104	27.209	34.983	18.234	1.00 30.85	Bl
ATOM	1691	N	HIS	105	25.285	35.878	19.028	1.00 32.96	<b>B1</b>
MOTA MOTA	1692	CA	HIS	105	25.557	35.637	20.466	1.00 34.13	<b>B1</b>
ATOM	1693 1694	CB	HIS	105	25.928	36.950	21.166	1.00 34.78	Bl
ATOM	1695	CG	HIS	105	27.158	37.587	20.644	1.00 37.03	Bl
ATOM	1696		HIS	105	27.335	38.645	19.814	1.00 38.51	Bl
ATOM	1697	ND1		105	28.423	37.129	20.961	1.00 38.91	B1
ATOM	1698	CE1 NE2		105	29.328	37.869	20.346	1.00 38.37	<b>B1</b>
ATOM	1699	NEZ C		105	28.696	38.799	19.644	1.00 40.30	B1
ATOM	1700	0	HIS	105	24.379	35.094	21.267	1.00 34.37	B1
ATOM	1701	N	HIS THR	105 106	23.261	35.499	21.025	1.00 33.67	B1
ATOM	1701	CA	THR	106	24.659	34.189	22.209	1.00 34.82	B1
	1102	CA.	THE	T00	23.665	33.685	23.164	1.00 35.49	B1

ATOM	1703	CB	THR	106	23.475	32.156	23.182	1.00 3	5 00	D.1
ATOM	1704		THR	106	24.707	31.544	23.162			B1
MOTA	1705	CG2	THR	106				1.00 3		B1
					22.953	31.632	21.823	1.00 3		Bl
ATOM	1706	C	THR	106	24.309	34.003	24.517	1.00 3		Bl
ATOM	1707	0	THR	106	25.409	34.565	24.562	1.00 3		B1
ATOM	1708	N	ALA	107	23.663	33.602	25.613	1.00 3		<b>B1</b>
ATOM	1709	CA	ALA	107	24.222	33.885	26.943	1.00 3	6.17	B1
MOTA	1710	CB	ALA	107	23.182	33.498	28.093	1.00 3	6.40	B1
ATOM	1711	C	ALA	107	25.560	33.172	27.162	1.00 3	5.49	B1
ATOM	1712	0	ALA	107	26.469	33.727	27.769	1.00 3	5.34	Bl
MOTA	1713	N	GLU	108	25.706	31.971	26.625	1.00 3	5.10	B1
ATOM	1714	CA	GLU	108	26.945	31.234	26.825	1.00 3	5.82	B1
ATOM	1715	CB	GLU	108	26.639	29.789	27.251	1.00 3	8.90	B1
ATOM	1716	CG	GLU	108	25.842	29.696	28.522	1.00 4		B1
MOTA	1717	CD	GLU	108	25.599	28.262	28.937	1.00 4		B1
ATOM	1718	OE1	GLU	108	24.655	28.041	29.730	1.00 5		Bl
ATOM	1719	OE2		108	26.362	27.357	28.489	1.00 5		B1
ATOM	1720	C	GLU	108	27.922	31.137	25.666	1.00 3		B1
ATOM	1721	ō	GLU	108	29.067	30.773	25.877	1.00 3		B1
ATOM	1722	N	TYR	109	27.475	31.424	24.445	1.00 3		
ATOM	1723	CA	TYR	109	28.353	31.235	23.264			B1
ATOM	1724	CB	TYR	109				1.00 3		B1
ATOM	1725	CG	TYR		27.875	30.013	22.503	1.00 3		B1
				109	28.046	28.688	23.249	1.00 3		B1
ATOM	1726	CD1		109	29.273	28.051	23.250	1.00 3		B1
ATOM	1727		TYR	109	29.487	26.878	23.917	1.00 3		B1
ATOM	1728	CD2	TYR	109	27.005	28.103	23.962	1.00 3		B1
ATOM	1729	CE2	TYR	109	27.208	26.886	24.682	1.00 3		B1
ATOM	1730	CZ	TYR	109	28.463	26.290	24.648	1.00 3		B1
ATOM	1731	OH	TYR	109	28.808	25.152	25.354	1.00 3		B1
MOTA	1732	C	TYR	109	28.417	32.380	22.310	1.00 3	0.50	B1
ATOM	1733	0	TYR	109	27.554	33.228	22.303	1.00 3	0.99	B1
ATOM	1734	И	ALA	110	29.461	32.420	21.505	1.00 2	9.56	B1
MOTA	1735	CA	ALA	110	29.581	33.426	20.459	1.00 2		B1
ATOM	1736	CB	ALA	110	30.834	34.276	20.657	1.00 2	8.86	Bl
ATOM	1737	C	ALA	110	29.738	32.524	19.210	1.00 2	7.13	B1
ATOM	1738	0	ALA	110	30.402	31.493	19.291	1.00 2	6.29	B1
ATOM	1739	N	ALA	111	29.118	32.894	18.081	1.00 2	5.13	B1
ATOM	1740	CA	ALA	111	29.227	32.100	16.882	1.00 2	3.39	B1
ATOM	1741	CB	ALA	111	28.013	31.175	16.746	1.00 2	2.39	B1
ATOM	1742	C	ALA	111	29.356	33.008	15.679	1.00 2	2.70	B1
ATOM	1743	0	ALA	111	28.867	34.126	15.682	1.00 2	2.85	<b>B1</b>
ATOM	1744	N	ALA	112	30.089		14.686	1.00 2	1.46	B1
MOTA	1745	CA	ALA	112	30.241	33.345	13.482	1.00 2		B1
MOTA	1746	CB	ALA	112	31.486	34.252	13.589	1.00 2		B1
ATOM	1747	C	ALA	112	30.398	32.430	12.266	1.00 2		B1
ATOM	1748	Ö	ALA	112	30.879	31.293	12.375	1.00 2		B1
ATOM	1749	N	GLN	113	29.993	32.935	11.115	1.00 2		B1
ATOM	1750	CA	GLN	113	30.208	32.218	9.878	1.00 2		B1
ATOM	1751	СВ	GLN	113	28.908	31.534	9.383	1.00 2		Bl
ATOM	1752	CG	GLN	113			8.868	1.00 2		B1
			GLN		27.902	32.494	8.350	1.00 2		B1
ATOM	1753	CD		113	26.589	31.847				B1
ATOM	1754		GLN	113	25,654	32.552	8.027	1.00 3		
ATOM	1755		GLN	113	26.531	30.530	8.284	1.00 3		B1
ATOM	1756	C	GLN	113	30.776	33.195	8.822	1.00 2		B1
MOTA	1757	0	GLN	113	30.519	34.401	8.807	1.00 2		B1
ATOM	1758	N	VAL		31.571	32.644	7.944	1.00 2		B1
MOTA	1759	CA	VAL	114	32.177	33.414	6.905	1.00 2		B1

ATOM	1760			114	33.652	33.625	7.242	1.00 24.26	
ATOM	1761		1 VAL	114	34.423		6.006		B1
MOTA	1762		2 VAL	114	33.757	34.606	8.465		B1
ATOM	1763		VAL	114	32.030		5.545		B1
MOTA	1764	. 0	VAL	114	32.043		5.430		B1
MOTA	1765	N	VAL	115	31.806		4.513	1.00 28.29	B1
ATOM	1766	CA	VAL	115	31.771		3.166	1.00 27.25	B1
ATOM	1767		VAL	115	30.349		2.574	1.00 27.22 1.00 28.50	B1
ATOM	1768		1 VAL	115	30.344	32.570	1.101	1.00 28.50	B1
ATOM	1769		2 VAL	115	29.410	32.124	3.431	1.00 28.02	B1
ATOM	1770		VAL	115	32.738	33.848	2.383	1.00 28.89	B1
ATOM	1771		VAL	115	32.711	35.075	2.508	1.00 26.76	B1
ATOM	1772		ILE	116	33.677	33.218	1.686	1.00 27.52	B1
ATOM	1773		ILE	116	34.609	33.904	0.814	1.00 26.35	B1
ATOM	1774	CB	ILE	116	36.075	33.488	1.072	1.00 26.60	B1
ATOM	1775		2 ILE	116	36.983	33.957	-0.072	1.00 21.90	B1
ATOM	1776		LILE	116	36.563	34.055	2.443	1.00 25.67	B1
ATOM	1777	CD		116	37.846	33.375	2.910	1.00 23.92	B1
ATOM	1778	C	ILE	116	34.168	33.440	-0.585	1.00 27.98	B1
ATOM	1779	0	ILE	116	34.019	32.231	-0.862	1.00 27.19	B1 B1
ATOM	1780	N	GLU	117	33.948	34.402	-1.468	1.00 29.29	B1
ATOM	1781	CA	GLU	117	33.483	34.060	-2.793	1.00 32.80	B1
ATOM	1782	CB	GLU	117	31.938	33.962	-2.782	1.00 33.28	B1
ATOM	1783	CG	GLU	117	31.267	35.318	-2.609	1.00 35.65	B1
ATOM	1784	CD	GLU	117	29.723	35.291	-2.613	1.00 39.26	B1
ATOM	1785		GLU	117	29.134	36.419	-2.643	1.00 39.69	B1
ATOM	1786		GLU	117	29.100	34.172	-2.569	1.00 40.90	B1
ATOM	1787	C	GLU	117	33.915	35.103	-3.843	1.00 34.11	B1
ATOM	1788	0	GLU	117	34.548	36.141	-3.535	1.00 32.11	B1
ATOM	1789	N	ALA	118	33.485	34.819	-5.066	1.00 36.51	B1
ATOM	1790	CA	ALA	118	33.783	35.630	-6.233	1.00 40.20	B1
ATOM	1791	СВ	ALA	118	33.338	34.887	-7.482	1.00 39.39	B1
ATOM	1792	C	ALA	118	33.186	37.007	-6.271	1.00 42.95	B1
MOTA MOTA	1793	0	ALA	118	32.180	37.281	-5.640	1.00 43.48	B1
ATOM	1794	N	LEU	119	33.826	37.852	-7.070	1.00 47.53	B1
ATOM	1795	CA	LEU	119	33.378	39.215	-7.384	1.00 49.83	Bl
MOTA	1796	CB	LEU	119	31.859	39.214	-7.654	1.00 49.43	Bl
ATOM	1797 1798	CG	LEU	119	30.968	40.454	-7.784	1.00 50.65	B1
ATOM	1799	CD2	LEU	119	31.476	41.381	-8.912	1.00 51.06	B1
ATOM	1800	CDZ		119	29.527	39.980	-8.097	1.00 50.28	B1
ATOM	1801	-	LEU LEU	119	33.756		-6.277	1.00 51.63	B1
ATOM	1802		LEU	119	34.683	39.763	-5.528	1.00 51.82	B1
ATOM	1803	CB		119	33.142	41.276	-6.215	1.00 53.62	. B1
ATOM	1804	CG	TYR TYR	3	22.353	25.516	-5.379	1.00 52.68	Cl
ATOM	1805		TYR	3	23.167	26.530	-4.597	1.00 55.12	Cl
ATOM	1806		TYR	3	23.777	27.607	-5.230	1.00 56.73	Cl
ATOM	1807		TYR	3	24.534	28.530	-4.502	1.00 57.50	Cl
ATOM	1808	CE2		3	23.326	26.402	-3.210	1.00 56.45	Cl
ATOM	1809	CZ	TYR	3 3	24.059	27.308	-2.471	1.00 56.85	Cl
ATOM	1810	OH	TYR		24.663	28.372	-3.111	1.00 57.87	C1
ATOM	1811	C	TYR	· 3 3	25.343	29.305	-2.339	1.00 58.87	Cl
ATOM	1812	ō	TYR	3	21.336	24.385	-3.370	1.00 47.65	Cl
ATOM	1813	N	TYR	3	20.156	24.720	-3.457	1.00 48.16	Cl
ATOM	1814	CA	TYR	3	21.618	23.132	-5.551	1.00 50.61	Cl
ATOM	1815	И	GLY	3 4	22.181	24.174	-4.640	1.00 50.00	C1
ATOM	1816	CA	GLY	4	21.970	24.178	-2.205	1.09 43.78	Cl
		~~	GMI	•	21.319	24.320	-0.920	1.00 38.85	C1

MOTA	1817	C	GLY	4	22.345	24.450	0.208	1.00 36.34	
ATOM	1818	0	GLY	4	23.551	24.279	-0.011	1.00 34.94	C1 C1
MOTA	1819	N	ILE	5	21.879	24.771	1.417	1.00 32.79	C1
ATOM	1820	CA	ILE	5	22.812	24.856	2.499	1.00 30.68	
ATOM	1821	CB	ILE	5	23.048	26.321	2.948	1.00 30.63	Cl
ATOM	1822	CG2	ILE	5	23.451	27.158	1.751	1.00 30.56	C1
ATOM	1823		ILE	5	21.785	26.866	3.658	1.00 28.48	Cl
ATOM	1824	CD1	TLE	5	21.859	28.351	3.966	1.00 29.65	C1
ATOM	1825	C	ILE	5	22.278	24.030	3.675	1.00 30.17	Cl
ATOM	1826	0	ILE	5	21.067	23.869	3.858	1.00 30.17	Cl
ATOM	1827	N	GLY	6	23.204	23.501	4.470	1.00 28.77	Cl
MOTA	1828	CA	GLY	6	22.815	22.720	5.628	1.00 27.45	Cl
MOTA	1829	C	GLY	6	23.619	23.128	6.849	1.00 27.03	Cl
MOTA	1830	0	GLY	6	24.801	23.444	6.791	1.00 27.03	Cl
ATOM	1831	N	LEU	7	22.948	23.131	7.972	1.00 26.98	Cl
MOTA	1832	CA	LEU	7	23.572	23.483	9.217	1.00 27.09	Cl
MOTA	1833	CB	LEU	7	23.079	24.868	9.689	1.00 27.34	Cl
ATOM	1834	CG	LEU	7	23.524	25.173	11.136	1:00 25.33	Cl
ATOM	1835	CD1	LEU	7	25.069	25.163	11.156	1.00 24.79	Cl
ATOM	1836	CD2		7	22.967	26.502	11.651		Cl
ATOM	1837	C	LEU	7	23.155	22.464	10.256	1.00 23.18	Cl
ATOM	1838	0	LEU	7	21.971	22.130		1.00 28.20	Cl
ATOM	1839	N	ASP	8	24.102	21.939	10.349	1.00 27.84	Cl
ATOM	1840	CA	ASP	8	23.706	21.939	11.023	1.00 29.28	Cl
ATOM	1841	CB	ASP	8	23.763	19.571	12.115	1.00 30.50	Cl
ATOM	1842	CG	ASP	8	23.427	18.685	11.768 13.011	1.00 31.66	Cl
ATOM	1843		ASP	8	24.372			1.00 35.63	C1
ATOM	1844		ASP	8	22.219	18.151 18.555	13.645	1.00 37.39	C1
ATOM	1845	c	ASP	8	24.585		13.405	1.00 36.31	Cl
ATOM	1846	ō	ASP	8	25.762	21.300 21.585	13.323	1.00 30.33	C1
ATOM	1847	N	ILE	9	23.762		13.166	1.00 30.47	Cl
ATOM	1848	CA	ILE	9	24.678	21.205	14.511	1.00 31.74	Cl
ATOM	1849	СВ	ILE	9 .	24.252	21.363 22.658	15.784	1.00 32.84	Cl
ATOM	1850		ILE	9	25.067	22.797	16.511	1.00 32.34	C1
ATOM	1851	CG1		9	24.518		17.803	1.00 30.24	C1
ATOM	1852		ILE	9	24.043	23.893	15.641	1.00 33.38	Cl
ATOM	1853	C	ILE	9		25.227	16.283	1.00 33.77	Cl
ATOM	1854	ō	ILE	9	24.296	20.145	16.673	1.00 34.79	Cl
ATOM	1855	N	THR	io	23.122	19.971	17.004	1.00 35.36	Cl
ATOM	1856	CA	THR	10	25.269 24.994	19.328	17.073	1.00 35.74	Cl
ATOM	1857	CB	THR	10	25.472	18.137	17.882	1.00:37.27	Cl
ATOM	1858		THR	10		16.876	17.144	1.00 37.49	Cl
ATOM	1859	CG2		10	24.647	16.636	15.995	1.00 38.81	Cl
ATOM	1860	C	THR	10	25.451	15.678	18.065	1.00 38.55	. Cl
ATOM	1861	Ö	THR	10	25.681 <sup>-</sup>	18.138	19.248	1.00 38.47	Cl
ATOM	1862	N	GLU	11	26.890	18.376	19.350	1.00 38.09	C1
ATOM	1863	CA	GLU		24.937	17.808	20.297	1.00 40.65	Cl
ATOM	1864	CB	GLU	11	25.517	17.796	21.641	1.00 42.07	Cl
ATOM	1865	CG	GLU	11	24.445	17.698	22.704	1.00 44.46	Cl
ATOM	1866	CD	GLU	11	23.399	18.780	22.608	1.00 47.87	Cl
ATOM	1867		GLU	11	22.055	18.287	22.052	1.00 50.81	Cl
ATOM				11	21.992	17.793	20.875	1.00 52.69	Cl
ATOM	1868 1869		GLU	11	21.042	18.409	22.790	1.00 52.15	C1
ATOM		C	GLU	11	26.487	16.655	21.798	1.00 42.23	C1
	1870	0	GLU	11	26.160	15.496	21.547	1.00 41.87	Cl
ATOM	1871	N	LEU	12	27.703	16.998	22.197	1.00 43.04	Cl
ATOM	1872	CA	LEU	12	28.755	16.015	22.402	1.00 44.92	Cl
ATOM	1873	CB	LEU	12	30.050	16.762	22.759	1.00 45.32	Cl

MOTA	1874	CG	LEU	12	31.373	16.017	22.645	1.00 45.47	Cl
MOTA	1875	CD1		12	31.521	15.493	21.223	1.00 45.90	Cl
ATOM	1876	CD2	_	12	32.531	16.952	22.988	1.00 45.63	Cl
MOTA	1877	C	LEU	12	28.445	14.905	23.462	1.00 45.67	Cl
ATOM	1878	0	LEU	12	28.808	13.750	23.266	1.00 46.27	Cl
ATOM	1879	N	LYS	13	27.804	15.257	24.570	1.00 46.36	Cl
ATOM	1880	CA	LYS	13	27.478	14.283	25.614	1.00 48.63	Cl
ATOM	1881	CB	ĽYS	13	26.628	14.935	26.733	1.00 48.16	Cl
ATOM	1882	CG	LYS	13	25.200	15.282	26.310	1.00 50.76	Cl
ATOM	1883	CD	LYS	13	24.417	16.187	27.292	1.00 52.14	Cl
MOTA	1884	CE	LYS	13	23.891	15.429	28.541	1.00 53.30	Cl
MOTA	1885	NZ	LYS	13	22.991	16.264	29.447	1.00 53.41	Cl
ATOM	1886	C	LYS	13	26.732	13.083	25.015	1.00 49.49	Cl
ATOM	1887	0	LYS	13	27.108	11.942	25.199	1.00 49.68	Cl
ATOM	1888	И	ARG	14	25.686	13.359	24.265	1.00 50.80	Cl
ATOM	1889	CA	ARG	14	24.892	12.318	23.663	1.00 52.14	Cl
MOTA	1890	CB	ARG	14	23.783	12.965	22.866	1.00 51.84	Cl
MOTA	1891	CG	ARG	14	23.042	13.982	23.692	1.00 51.93	Cl
ATOM	1892	CD	ARG	14	22.047	14.703	22.828	1.00 53.26	Cl
ATOM	1893	NE	ARG	14	21.053	13.803	22.252	1.00 53.51	Cl
MOTA	1894	CZ	ARG	14	20.340	14.101	21.171	1.00 54.68	Cl
ATOM	1895		ARG	14	20.523	15.261	20.563	1.00 54.94	Cl
ATOM	1896	NH2		14	19.444	13.245	20.687	1.00 55.74	Cl
ATOM	1897	C	ARG	14	25.680	11.361	22.795	1.00 53.45	Cl
ATOM	1898	0	ARG	14	25.363	10.183	22.741	1.00 54.19	Cl
ATOM	1899	N	ILE	15	26.717	11.843	22.128	1.00 54.83	Cl
MOTA	1900	CA	ILE	15	27.474	10.964	21.267	1.00 57.01	Cl
MOTA	1901	CB	ILE	15	28.057	11.749	20.059	1.00 56.55	Cl
MOTA	1902	CG2	ILE	15	29.188	10.976	19.391	1.00 56.26	Cl
MOTA	1903	CG1	ILE	15	26.929	11.991	19.053	1.00 56.70	C1
MOTA	1904	CD1	ILE	15	27.329	12.663	17.774	1.00 56.92	Cl
ATOM	1905	C	ILE	15	28.547	10.195	22.020	1.00 58.74	Cl
ATOM	1906	0	ILE	15	28.958	9.114	21.606	1.00 59.22	Cl
MOTA	1907	N	ALA	16	28.994	10.740	23.138	1.00 60.96	Cl
MOTA	1908	CA	ALA	16	30.002	10.064	23.939	1.00 63.12	C1
MOTA	1909	CB	ALA	16	30.797	11.077	24.740	1.00 63.01	Cl
ATOM	1910	C	ALA	16	29.254	9.132	24.881	1.00 64.75	Cl
MOTA	1911	0	ALA	16	29.784	8.098	25.285	1.00 65.27	Cl
MOTA	1912	N	SER	17	28.017	9.519	25.208	1.00 66.19	Cl
ATOM	1913	CA	SER	17	27.134	8.793	26.118	1.00 67.59	Cl
ATOM	1914	.CB	SER	17	25.826	9.574	26.347	1.00 67.92	Cl
MOTA	1915	OG	SER	17	26.016	10.786	27.054	1.00 67.73	Cl
MOTA	1916	C	SER	17	26.757	7.405	25.628	1.00 68.66	·C1
MOTA	1917	0	SER	17	26.132	6.640	26.376	1.00 68.47	Cl
ATOM	1918	И	MET	18	27.093	7.094	24.375	1.00 69.63	Cl
ATOM	1919	CA	MET	18	26.786	5.777	23.798	1.00 70.99	Cl
ATOM	1920	CB	MET	18	26.851	5.853	22.277	1.00 71.06	Cl
MOTA	1921	CG	MET	18	25.973	6.933	21.711	1.00 71.97	Cl
ATOM	1922	SD	MET	18	26.030	6.980	19.905	1.00 73.05	Cl
MOTA	1923	CE	MET	18	24.315	6.428	19.528	1.00 73.21	Cl
ATOM	1924	C	MET -	18	27.749	4.697	24.321	1.00 71.40	Cl
ATOM	1925	0	MET	18	28.673	4.264	23.633	1.00 71.07	C1
MOTA	1926	N	ALA	19	<b>27.</b> 506	4.270	25.551	1.00 72.22	Cl
MOTA	1927	CA	ALA	19	28.341	3.281	26.219	1.00 73.14	Cl
ATOM	1928	CB	ALA	19	27.573	2.671	27.415	1.00 73.41	Cl
ATOM	1929	C	ALA	19	28.821	2.189	25.267	1.00 73.29	Cl
ATOM	1930	0	ALA ·	19	29.755	2.402	24.496	1.00 73.21	Cl
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MOTA	1931	N	GLY	20	28.187	1.022	25.339	1.00 73.39	Cl
MOTA	1932	CA	GLY	20	28.550	-0.088	24.468	1.00 73.28	C1
MOTA	1933	С	GLY	20	27.835	0.042	23.133	1.00 72.78	C1
MOTA	1934	0	GLY	20	28.124	-0.687	22.172	1.00 73.18	C1
ATOM	1935	N	ALA	21	26.909	0.994	23.074	1.00 72.11	Cl
ATOM	1936	CA	ALA	21	26.152	1.257	21.864	1.00 71.43	Cl
MOTA	1937	CB	ALA	21	24.775	1.796	22.230	1.00 71.48	Cl
MOTA	1938	C	ALA	21	26.869	2.234	20.915	1.00 70.86	Cl
MOTA	1939	0	ALA	21	26.378	2.496	19.814	1.00 71.29	Cl
MOTA	1940	N	GLN	22	28.026	2.767	21.310	1.00 69.99	Cl
MOTA	1941	CA	GLN	22	28.721	3.723	20.435	1.00 68.84	Cl
MOTA	1942	CB	GLN	22	29.765	4.560	21.216	1.00 69.02	Cl
ATOM	1943	CG	GLN	22	30.326	5.758	20.410	1.00 69.19	Cl
ATOM	1944	CD	GLN	22	31.497	6.497	21.087	1.00 69.34	Cl
ATOM	1945	OE1		22	31.310	7.185	22.095	1.00 69.45	C1
ATOM	1946	NE2		22	32.709	6.356	20.521	1.00 68.39	Cl
ATOM	1947	C	GLN	22	29.391	3.081	19.218	1.00 67.50	Cl
ATOM	1948	0	GLN	22	29.385	3.660	18.117	1.00 67.29	C1
ATOM	1949	И	LYS	23	29.960	1.887	19.405	1.00 66.01	Cl
MOTA	1950	CA	LYS	23	30.647	1.197	18.306	1.00 63.66	Cl
ATOM	1951	CB	LYS	23	31.376	-0.048	18.820	1.00 63.88	Cl
ATOM	1952	C	LYS	23	29.697	0.828	17.178	1.00 61.94	Cl
ATOM	1953	0	LYS	23	30.024	1.040	16.009	1.00 61.92	Cl
MOTA	1954	И	ALA	24	28.531	0.276	17.501	1.00 59.42 1.00 57.41	Cl
ATOM	1955	CA	ALA ALA	24	27.608 26.401	-0.064 -0.809	16.433 16.978	1.00 57.41 1.00 58.14	C1 C1
ATOM	1956	CB		24	27.188	1.243	15.774	1.00 55.96	Cl
ATOM ATOM	1957 1958	0	ALA ALA	24 24	26.959	1.309	14.560	1.00 55.56	Cl
ATOM	1959	И	PHE	25	27.096	2.293	16.585	1.00 54.55	Cl
ATOM	1960	CA	PHE	25	26.742	3.606	16.069	1.00 53.36	Cl
ATOM	1961	CB	PHE	25	26.589	4.605	17.206	1.00 54.38	Cl
ATOM	1962	CG	PHE	25	26.245	6.010	16.750	1.00 54.54	Cl
ATOM	1963	-	PHE	<b>25</b> .	25.001	6.302	16.224	1.00 53.95	Cl
ATOM	1964	CD2		25	27.175	7.044	16.869	1.00 54.96	Cl
ATOM	1965		PHE	25	24.690	7.594	15.826	1.00 54.26	Cl
ATOM	1966	CE2		25	26.863	8.348	16.468	1.00 54.29	Cl
MOTA	1967	CZ	PHE	25	25.622	8.616	15.950	1.00 54.55	Cl
MOTA	1968	C	PHE	25	27.793	4.127	15.089	1.00 52.32	Cl
MOTA	1969	0	PHE	25	27.439	4.764	14.115	1.00 51.87	Cl
ATOM	1970	N	ALA	26	29.077	3.876	15.348	1.00 50.87	Cl
MOTA	1971	CA	ALA	26	30.116	4.333	14.436	1.00 49.99	Cl
MOTA	1972	CB	ALA	26	31.478	4.112	15.040	1.00 50.04	Cl
ATOM	1973	C	ALA	26	29.997	3.573	13.123	1.00 49.93	, C1
ATOM	1974	0	ALA	26	30.188	4.127	12.033	1.00 49.20	C1
MOTA	1975	И	GLU	27	29.649	2.295	13.234	1.00 50.16	C1
MOTA	1976	CA	GLU	27	29.496	1.448	12.070	1.00 50.47	Cl
MOTA	1977	CB	GLU	27	29.173	0.024	12.510	1.00 52.03	Cl
MOTA	1978	CG	GLU	27	30.367	-0.815	12.987	1.00 54.33	Cl
ATOM	1979	CD	GLU	27	29.916	-2.070	13.746	1.00 55.34	Cl
MOTA	1980		GLU	27	28.944	-2.729	13.292	1.00 56.02 1.00 55.46	C1 C1
ATOM	1981		GLU	27	30.533	-2.398	14.787	1.00 55.46	Cl
MOTA	1982	C	GLU	27	28.419	1.931	11.093	1.00 49.87	Cl
ATOM	1983	0	GLU	27	28.528	1.710	9.895	1.00 49.03	Cl
ATOM	1984	N	ARG	28	27.360	2.567	11.569	1.00 49.12	Cl
ATOM	1985	CA	ARG	28	26.371	2.984 2.738	10.596 11.106	1.00 49.19	Cl
ATOM	1986	CB	ARG	28	24.942		12.237		Cl
MOTA	1987	CG	ARG	28	24.450	3.590	14.43/	1.00 34.01	

MOTA	1988	CD	ARG	28	23.036	3.114	12.653	1.00 55.93	Cl
MOTA	1989	NE	ARG	28	22.209	2.863	11.476	1.00 57.95	Cl
MOTA	1990	CZ	ARG	28	20.924	2.507	11.517	1.00 58.79	Cl
ATOM	1991		ARG	28	20.313	2.352	12.684	1.00 59.69	Cl
ATOM	1992		ARG	28	20.243	2.340	10.389	1.00 58.73	Cl
ATOM	1993	C	ARG	28	26.553	4.409	10.124	1.00 48.21	Cl
ATOM	1994	0	ARG	28	26.098	4.762	9.053	1.00 47.43	Cl
ATOM	1995	N	ILE	29	27.272	5.201	10.912	1.00 47.42	Cl
MOTA	1996	CA	ILE	29	27.538	6.605	10.614	1.00 46.88	Cl
MOTA	1997	CB	ILE	29	27.707	7.408	11.976	1.00 47.32	Cl
MOTA	1998	CG2	ILE	29	28.331	8.779	11.771	1.00 47.45	Cl
MOTA	1999	CG1	ILE	29	26.334	7.637	12.586	1.00 48.41	Cl
MOTA	2000	CD1	ILE	29	25.391	8.300	11.593	1.00 46.71	Cl
MOTA	2001	C	ILE	29	28.777	6.806	9.728	1.00 46.01	Cl
MOTA	2002	0	ILE	29	28.777	7.696	8.896	1.00 45.66	Cl
MOTA	2003	N	LEU	30	29.803	5.956	9.893	1.00 45.16	Cl
ATOM	2004	CA	LEU	30	31.074	6.085	9.173	1.00 44.13	Cl
ATOM	2005	CB	LEU	30	32.230	5.891	10.149	1.00 42.42	Cl
ATOM	2006	CG	LEU	30	32.220	6.792	11.380	1.00 40.57	Cl
ATOM	2007		LEU	30	33.481	6.580	12.183	1.00 39.86	Cl
ATOM	2008		LEU	30	32.155	8.253	10.937	1.00 40.97	Cl
ATOM	2009	C	LEU	30	31,314	5.199	7.983	1.00 44.93	Cl
ATOM	2010	0	LEU	30	30.702	4.163	7.832	1.00 46.00	Cl
ATOM .	2011	И	THR	31	32.186	5.612	7.088	1.00 45.98	Cl
ATOM	2012	CA	THR	31	32.469	4.743	5.961	1.00 47.55	Cl
MOTA	2013	CB	THR	31	32.961	5.509	4.736	1.00 46.23	Cl
ATOM	2014	0G1	THR	31	34.189	6.165	5.066	1.00 46.01	Cl
ATOM	2015	CG2	THR	31	31.927	6.503	4.262	1.00 45.18	Cl
MOTA	2016	C	THR	31	33.632	3.869	6.463	1.00 49.42	Cl
ATOM	2017	0	THR	31	34.085	4.033	7.610	1.00 50.48	Cl
MOTA	2018	N	ALA	32	34.123	2.963	5.616	1.00 50.64	Cl
ATOM	2019	CA	ALA	32	35.253	2.106	5.991	1.00 51.68	Cl
MOTA	2020	CB	ALA	32	35.528	1.047	4.876	1.00 52.35	Cl
ATOM	2021	C	ALA	32	36.491	2.965	6.219	1.00 52.19	Cl
MOTA	2022	0	ALA	32	37.197	2.814	7.219	1.00 52.47	Cl
ATOM	2023	И	SER	33	36.759	3.875	5.290	1.00 52.78	C1
MOTA	2024	CA	SER	33	37.923	4.754	5.443	1.00 53.37	Cl
MOTA	2025	CB	SER	33	38.091	5.616	4.192	1.00 54.79	Cl
MOTA	2026	OG	SER	33	39.472	5.820	3.917	1.00 57.32	Cl
MOTA	2027	C	SER	33	37.852	5.661	6.688	1.00 52.95	Cl
ATOM	2028	0	SER	33	38.883	6.095	7.211	1.00 53.00	Cl
ATOM	2029	N	GLU	34	36.635	5.958	7.152	1.00 52.41	Cl
ATOM	2030	CA	GLU	34	36.455	6.784	8.347	1.00 52.05	. <b>C1</b>
MOTA	2031	CB	GLU	34	35.114	7.540	8.280	1.00 51.02	C1
MOTA	2032	CG	GLU	34	35.061	8.615	7.156	1.00 49.60	Cl
ATOM	2033	æ	GLU	34	33.753	9.410	7.130	1.00 48.95	Cl
ATOM	2034		GLU	34	32.684	8.769	7.085	1.00 47.99	Cl
ATOM	2035		GLU	34	33.787	10.666	7.156	1.00 47.77	Cl
ATOM	2036	C	GLU	34	36.537	5.90 <b>9</b>	9.618	1.00 52.70	Cl
ATOM	2037	0	GLU	34	36.952	6.377	10.666	1.00 52.35	C1
ATOM	2038	N	LEU		36.139	4.639	9.531	1.00 53.84	C1
MOTA	2039	CA	LEU	35	36.242	3.754	10.695	1.00 54.78	C1
ATOM	2040	CB	LEU	35	35.546	2.420	10.432	1.00 55.12	C1
ATOM	2041	CG	LEU	35	34.076	2.277	10.820	1.00 55.35	Cl
ATOM	2042		LEU	35	33.600	0.893	10.406	1.00 55.25	Cl
ATOM	2043		LEU	35	33.898	2.501	12.333	1.00 54.93	Cl
MOTA	2044	.C	LEU	35	37.705	3.480	11.030	1.00 55.08	Cl

MOTA	2045	0	LEU	35	38.115	3.573	12.191	1.00 55.65	Cl
MOTA	2046	N	ASP	36	38.485	3.130	10.009	1.00 55.26	Cl
ATOM	2047	CA	ASP	36	39.904	2.848	10.203	1.00 55.75	C1
MOTA	2048	CB	ASP	36	40.635	2.737	8.850	1.00 56.59	Cl
ATOM	2049	CG	ASP	36	40.120	1.578	7.996	1.00 57.54	Cl
MOTA	2050	OD1	ASP	36	39.855	. 0.505	8.576	1.00 57.49	Cl
ATOM	2051	OD2	ASP	36	39.985	1.732	6.753	1.00 58.09	Cl
ATOM	2052	C	ASP	36	40.478	3.993	11.016	1.00 55.72	Cl
ATOM	2053	0	ASP	36	41.169	3.788	11.997	1.00 56.02	Cl
ATOM	2054	N	GLN	37	40.166	5.210	10.600	1.00 55.73	Cl
ATOM	2055	CA	GLN	37	40.619	6.405	11.283	1.00 55.71	Cl
MOTA	2056	CB	GLN	37	40.149	7.628	10.521	1.00 54.93	Cl
ATOM	2057	CG	GLN	37	41.213	8.381	9.795	1.00 54.35	C1
ATOM	2058	CD	GLN	37	40.631	9.593	9.112	1.00 54.07	Cl
MOTA	2059		GLN	37	39.960	9.478	8.075	1.00 52.71	Cl
ATOM	2060		GLN	37	40.858	10.764	9.705	1.00 52.34	Cl
ATOM	2061	C	GLN	37	40.101	6.530	12.708	1.00 56.36	Cl
ATOM	2062	0	GLN	37	40.839	6.929	13.607	1.00 56.00	Cl
ATOM	2063	N	TYR	38	38.821	6.219	12.909	1.00 57.07	Cl
ATOM	2064	CA	TYR	38	38.219	6.361	14.237	1.00 58.12	Cl
ATOM	2065	CB	TYR	38	36.686	6.298	14.132	1.00 56.44	Cl
MOTA	2066	CG	TYR	38	35.946	5.851	15.376	1.00 55.07	C1
MOTA	2067		TYR	38	35.634	4.492	15.577	1.00 54.58	Cl
ATOM	2068		TYR	38	34.888	4.081	16.665	1.00 54.40	Cl
ATOM	2069		TYR	38	35.495	6.775	16.309	1.00 54.17	Cl
ATOM	2070		TYR	38	34.743	6.383	17.403	1.00 54.20	Cl
ATOM	2071	CZ	TYR	38	34.434	5.031	17.579	1.00 55.06	Cl
ATOM	2072	ОН	TYR	38	33.624	4.643	18.637	1.00 54.94	Cl
ATOM	2073	C	TYR	38	38.746	5.362	15.259	1.00 59.63	C1
ATOM	2074	0	TYR	38	38.891	5.689	16.444	1.00 59.42	C1
ATOM	2075	N	TYR	39	39.033	4.147	14.814	1.00 61.46	C1
ATOM	2076	CA	TYR	39	39.556	3.170	15.746	1.00 63.73	C1
ATOM	2077	CB	TYR	39	39.643	1.793	15.071	1.00 64.25	Cl
ATOM ATOM	2078	CG	TYR	39	38.272	1.181	14.835	1.00 64.53	Cl
ATOM	2079 2080		TYR TYR	39 30	37.344	1.080	15.881	1.00 64.91	Cl
ATOM	2081		TYR	39	36.072	0.506	15.680	1.00 65.28	Cl
ATOM	2081		TYR	39 39	37.905 36.642	0.696	13.577	1.00 64.93 1.00 65.37	Cl
ATOM	2083	CZ	TYR			0.121	13.361	1.00 65.70	Cl
ATOM	2084	OH	TYR	39 39	35.729 34.476	0.030	14.418	1.00 65.70	C1 C1
ATOM	2085	C	TYR	39	40.921	-0.536 3.650	14.209 16.250		Cl
ATOM	2086	ō	TYR	39	41.182	3.658	17.456	1.00 65.10	Cl
ATOM	2087	N	GLU	40	41.762	4.121	15.335	1.00 65.88	.C1
ATOM	2088	CA	GLU	40	43.089	4.588	15.700	1.00 66.96	Cl
ATOM	2089	CB	GLU	40	43.841	5.007	14.437	1.00 68.15	Cl
ATOM	2090	CG	GLU	40	43.834	3.971	13.306	1.00 70.60	Cl
ATOM	2091	8	GLU	40	44.773	2.804	13.551	1.00 71.61	Cl
ATOM	2092		GLU	40	45.990	3.062	13.726	1.00 72.41	Cl
ATOM	2093		GLU	40	44.300	1.640	13.560	1.00 72.06	Cl
ATOM	2094	C	GLU	40	43.169	5.739	16.718	1.00 67.18	Cl
ATOM	2095	ō	GLU	40	44.278	6.191	17.025	1.00 67.28	Cl
ATOM	2096	N	LEU	41	42.041	6.217	17.254	1.00 67.17	Cl
ATOM	2097	CA	LEU	41	42.099	7.348	18.199	1.00 66.97	Cl
ATOM	2098	СВ	LEU	41	41.165	8.493	17.752	1.00 68.22	Cl
ATOM	2099	CG	LEU	41	40.458	8.591	16.389	1.00 69.08	Cl
ATOM	2100		LEU	41	39.582	9.844	16.385	1.00 69.66	Cl
ATOM	2101		LEU	41	41.463	8.646	15.253	1.00 68.80	Cl
				7-		3.340			

ATOM	2102	С	LEU	41	41.815	7.099	19.673	1.00 66.10	Cl
ATOM	2103	0	LEU	41	41.316	6.049	20.056	1.00 65.84	Cl
ATOM	2104	N	SER	42	42.121	8.118	20.481	1.00 65.38	C1
ATOM	2105	CA	SER	42	41.900	8.119	21.927	1.00 64.65	Cl
ATOM	2106	CB	SER	42	42.509	9.379	22.550	1.00 65.06	Cl
ATOM	2107	OG	SER	42	41.588	.10.451	22.500	1.00 65.28	Cl
ATOM	2108	C	SER	42	40.395	8.120	22.188	1.00 64.02	Cl
ATOM	2109	0	SER	42	39.614	8.129	21.247	1.00 64.03	Cl
ATOM	2110	N	ALA	43	39.982	8.135	23.453	1.00 63.26	Cl
ATOM	2111	CA	ALA	43	38.548	8.115	23.771	1.00 62.62	Cl
ATOM	21 <u>1</u> 2	CB	ALA	43	38.320	7.715	25.241	1.00 63.05	Cl
MOTA	2113	C	ALA	43	37.864	9.443	23.490	1.00 62.12	Cl
ATOM	2114	0	ALA	43	36.805	9.473	22.853	1.00 61.61	Cl
ATOM	2115	N	ALA	44	38.465	10.530	23.986	1.00 61.56	Cl
ATOM	2116	CA	ALA	44	37.933	11.878	23.798	1.00 60.59	Cl
MOTA	2117	CB	ALA	44	38.706	12.916	24.672	1.00 60.16	C1
MOTA	2118	C	ALA	44	37.978	12.284	22.326	1.00 59.80	Cl
MOTA	2119	0	ALA	44	37.012	12.828	21.824	1.00 59.42	Cl
MOTA	2120	N	ARG	45	39.098	12.030	21.649	1.00 59.45	C1
ATOM	2121	CA	ARG	45	39.235	12.370	20.232	1.00 58.82	Cl
MOTA	2122	CB	ARG	45	40.678	12.131	19.761	1.00 59.70	Cl
ATOM	2123	CG	ARG	45	41.752	12.782	20.644	1.00 62.25	Cl
MOTA	2124	CD	ARG	45	41.628	14.315	20.713	1.00 64.07	Cl
ATOM	2125	NE	ARG	45	42.275	14.966	19.581	1.00 65.16	Cl
ATOM	2126	CZ	ARG	45	42.180	16.264	19.297	1.00 66.26	Cl
ATOM	2127	NH1	ARG	45	41.458	17.081	20.062	1.00 66.17	Cl
MOTA	2128	NH2	ARG	45	42.811	16.745	18.232	1.00 66.74	Cl
ATOM	2129	C	ARG	45	38.265	11.541	19.367	1.00 57.52	Cl
ATOM	2130	0	ARG	45	37.920	11.938	18.252	1.00 56.92	Cl
ATOM	2131	N	LYS	46	37.847	10.387	19.894	1.00 56.06	Cl
ATOM	2132	CA	LYS	46	36.907	9.486	19.224	1.00 54.03	C1
ATOM	2133	CB	LYS	46	36.846	8.128	19.929	1.00 54.55	Cl
MOTA	2134	CG	LYS	46	37.435	6.971	19.164	1.00 54.57	Cl
ATOM	2135	CD	LYS	46	37.268	5.714	19.992	1.00 55.22	Cl
ATOM	2136	CE	LYS	46	38.104	4.549	19.478	1.00 55.72	Cl
ATOM	2137	NZ	LYS	46	38.363	3.564	20.603	1.00 56.26	Cl
MOTA	2138	C	LYS	46	35.520	10.089	19.273	1.00 52.55	Cl
ATOM	2139	0	LYS	46	34.821	10.106	18.258	1.00 52.04	Cl
ATOM	2140	N	asn	47	35.121	10.569	20.454	1.00 51.04	C1
ATOM	2141	CA	ASN	47	33.793	11.169	20.611	1.00 50.28	Cl
ATOM	2142	CB	ASN	47	33.479	11.536	22.077	1.00 50.72	Cl
ATOM	2143	CG	ASN	47	33.383	10.309	23.007	1.00 51.16	Cl
ATOM	2144		asn	47	33.148	9.176	22.575	1.00 50.76	Cl
ATOM	2145		ASN	47	33.551	10.552	24.298	1.00 51.61	Cl
ATOM	2146	C	ASN	47	33.665	12.430	19.760	1.00 49.27	Cl
ATOM	2147	0	ASN	47	32.597	12.715	19.215	1.00 49.62	Cl
ATOM	2148	N	GLU	48	34.756	13.181	19.668	1.00 47.01	C1
ATOM	2149	CA	GLU	48	34.787	14.405	18.890	1.00 45.47	Cl
ATOM	2150	CB	GLU	48	36.056	15.175	19.232	1.00 45.97	Cl
ATOM	2151	CG	GLU	48	36.313	16.414	18.420	1.00 48.61	Cl
ATOM	2152	CD	GLU	48	37.700	17.005	18.710	1.00 50.94	Cl
MOTA	2153		GLU	48	37.954	17.311	19.905	1.00 51.25	Cl
ATOM	2154		GLU	48	38.523	17.146	17.756	1.00 51.22	Cl
ATOM	2155	C	GLU	48	34.710	14.105	17.385	1.00 43.65	Cl
ATOM	2156	0	GLU	48	33.909	14.705	16.674	1.00 43.81	Cl
ATOM	2157	N	PHE	49	35.530	13.169	16.924	1.00 41.45	Cl
ATOM	2158	CA	PHE	49	35.583	12.746	15.520	1.00 40.40	. C1

MOTA	2159	CB	PHE	49	36.602	11.606	15.401	1.00 39.94	Cl
MOTA	2160	CG	PHE	49	36.716	11.001	14.030	1.00 39.65	Cl
ATOM	2161	CD1	PHE	49	37.568	11.557	13.076	1.00 39.24	Cl
ATOM	2162		PHE	49	35.956	9.872	13.683	1.00 39.25	Cl
ATOM	2163	CE1	PHE	49	37.664	10.995	11.786	1.00 39.19	Cl
ATOM	2164	CE2	PHE	49	36.045	9.309	12.416	1.00 39.13	Cl
ATOM	2165	CZ	PHE	49	36.898	9.870	11.465	1.00 39.13	Cl
MOTA	2166	C	PHE	49	34.223	12.285	14.969	1.00 39.44	Cl
ATOM	2167	0	PHE	49	33.853	12.569	13.837	1.00 38.77	Cl
ATOM	2168	N	LEU	50	33.493	11.585	15.822	1.00 39.24	Cl
ATOM	2169	CA	LEU	50	32.181	11.017	15.536	1.00 38.43	Cl
ATOM	2170	CB	LEU	50	31.894	9.933	16.563	1.00 40.17	Ci
ATOM	2171	CG	LEU	50	30.869	8.849	16.338	1.00 41.67	Ci
ATOM	2172		LEU	50	31.036	8.226	14.967	1.00 41.34	Cl
ATOM	2173	CD2	LEU	.50	31.076	7.817	17.485	1.00 42.66	Ci
MOTA	2174	C	LEU	50	31.096	12.080	15.584	1.00 36.53	Cl
ATOM	2175	0	LEU	50	30.238	12.089	14.728	1.00 35.96	Cl
MOTA	2176	N	ALA	51	31.122	12.964	16.574	1.00 34.40	Cl
ATOM	2177	CA	ALA	51	30.119	14.037	16.624	1.00 33.68	Cl
ATOM	2178	CB	ALA	51	30.253	14.848	17.916	1.00 32.94	Cl
ATOM	2179	C	ALA	51	30.273	14.978	15.397	1.00 33.10	C1
ATOM	2180	0	ALA	51	29.285	15.500	14.898	1.00 32.94	Cl
ATOM	2181	N	GLY	52	31.507	15.173	14.925	1.00 31.96	Cl
ATOM	2182	CA	GLY	52	31.733	16.031	13.780	1.00 31.80	Cl
ATOM	2183	C	GLY	52	31.252	15.353	12.494	1.00 31.78	Cl
ATOM	2184	0	GLY	<b>52</b> ,	30.628	15.983	11.644	1.00 31.70	Cl
ATOM	2185	N	ARG	53	31.541	14.069	12.343	1.00 30.89	Cl
ATOM	2186	CA	ARG	53	31.095	13.360	11.178	1.00 30.82	Cl
ATOM	2187	СВ	ARG	· .53	31.696	11.955	11.140	1.00 31.36	Cl
MOTA	2188	CG	ARG	53	33.218	11.928	10.921	1.00 32.07	Cl
ATOM	2189	CD.	ARG	53	33.616	12.890	9.806	1.00 32.32	C1
ATOM	2190	NE	ARG	53	34.692	12.368	8.969	1.00 33.86	Cl
MOTA	2191	CZ	ARG	53	35.987	12.658	9.095	1.00 33.37	Cl
ATOM	2192		ARG	53	36.428	13.486	10.054	1.00 33.63	Cl
ATOM	2193	NH2		53	36.841	12.146	8.220	1.00 32.05	Cl
ATOM	2194	C	ARG	53	29.569	13.319	11.182	1.00 31.61	Cl
ATOM ATOM	2195	0	ARG	53	28.937	13.501	10.152	1.00 31.36	Cl
	2196	N	PHE	54	28.962	13.127	12.347	1.00 31.34	Cl
ATOM ATOM	2197 2198	CA	PHE	54	27.525	13.108	12.372	1.00 31.44	Cl
ATOM	2198	CB	PHE	54	27.029	12.706	13.743	1.00 31.60	Cl
ATOM	2200	. —	PHE	54	25.526	12.607	13.832	1.00 31.67	Cl
ATOM	2201		PHE	54 54	24.785	13.643	14.338	1.00 31.48	C1
ATOM	2202		PHE		24.872	11.431	13.469	1.00 33.28	.Cl
ATOM	2203		PHE	54	23.417	13.532	14.512	1.00 33.12	Cl
ATOM	2204	CZ	PHE	54	23.498	11.304	13.636	1.00 33.43	C1 .
ATOM	2205	C	PHE	54	22.768	12.356	14.159	1.00 32.71	CI
ATOM	2206	0	PHE	54	26.956	14.500	12.004	1.00 31.59	Cl
ATOM	2207	И	ALA	54	25.979	14.607	11.221	1.00 31.51	Cl
ATOM	2208	CA	ALA	55 55	27.557	15.561	12.556	1.00 30.03	Cl
ATOM	2209	CB	ALA	55 55	27.078	16.901	12.244	1.00 28.91	Cl
ATOM	2210	C	ALA	55 55	27.818	17.954	13.085	1.00 27.86	C1
ATOM	2211	0	ALA	55 55	27.269 26.382	17.201	10.759	1.00 27.31	Cl
ATOM	2212	И	ALA	55 56		17.727	10.093	1.00 27.19	Cl
ATOM	2213	CA	ALA	56 56	28.422	16.827	10.237	1.00 26.94	Cl
ATOM	2214	CB	ALA		28.714	17.144	8.872	1.00 27.05	Cl
ATOM	2215	C	ALA	56 56	30.187	16.884	8.580	1.00 24.76	Cl
		~	~mv	30	27.795	16.412	7.896	1.00 27.88	Cl

MOTA	2216	0	ALA	56	27.235	17.025	6.991	1.00 26.74	Cl
MOTA	2217	N	ĻYS	57	27.608	15.107	8.109	1.00 29.56	Cl
MOTA	2218	CA	LYS	57	26.730	14.322	7.225	1.00 31.03	Cl
MOTA	2219	CB	LYS	57	26.852	12.839	7.583	1.00 31.20	Cl
MOTA	2220	CG	LYS	57	28.325	12.401	7.540	1.00 32.34	Cl
ATOM	2221	CD	LYS	57	28.512	·10.871	7.527	1.00 32.86	Cl
ATOM	2222	CE	LYS	57	29.964	10.523	7.125	1.00 32.77	C1
ATOM	2223	NZ	LYS	57	30.182	9.068	6.836	1.00 34.27	Cl
ATOM	2224	C	LYS	57	25.274	14.819	7.324	1.00 31.24	Cl
ATOM	2225	0	LYS	57	24.590	14.833	6.318	1.00 31.30	Cl
ATOM	2226	N	GLU	58	24.818	15.223	8.521	1.00 31.14	Cl
ATOM	2227	CA	GLU	58	23.469	15.773	8.701	1.00 32.92	Cl
ATOM	2228	CB	GLU	58	23.160	16.046	10.174	1.00 36.48	Cl
ATOM	2229	CG	GLU	58	22.886	14.782	11.009	1.00 41.69	Cl
ATOM	2230	CD	GLU	58	21.613	14.062	10.525	1.00 45.03	Cl
ATOM	2231 2232	OE1	GLU	58 50	20.590	14.119	11.249	1.00 46.29	C1
ATOM ATOM	2232	C C	GLU GLU	58 58	21.642	13.468	9.407	1.00 47.23	Cl
ATOM	2234	0	GLU	58	23.369 22.386	17.113	7.960	1.00 33.31	C1
ATOM	2235	И	ALA	5 <b>9</b>	24.380	17.346	7.263 8.106	1.00 33.22	Cl
ATOM	2236	CA	ALA	59	24.364	17.986 19.285	7.436	1.00 32.66 1.00 32.45	C1 C1
ATOM	2237	CB	ALA	59	25.613	20.073	7.756	1.00 32.45	
ATOM	2238	C	ALA	59	24.309	19.048	5.937	1.00 30.78	C1
ATOM	2239	0	ALA	59	23.592	19.712	5.207	1.00 30.95	Cl
ATOM	2240	N	PHE	60	25.109	18.110	5.483	1.00 33.43	Cl
ATOM	2241	CA	PHE	60	25.158	17.816	4.065	1.00 35.36	Cl
ATOM	2242	CB	PHE	60	26.240	16.789	3.766	1.00 35.51	Cl
ATOM	2243	CG	PHE	60	26.301	16.398	2.312	1.00 37.38	Cl
ATOM	2244		PHE	60	27.001	17.173	1.391	1.00 38.64	C1
ATOM	2245		PHE	60	25.663	15.256	1.863	1.00 37.90	Cl
ATOM	2246		PHE	60	27.061	16.786	0.032	1.00 38.44	Cl
ATOM	2247	CE2	PHE	60	25.715	14.871	0.532	1.00 37.72	Cl
ATOM	2248	CZ	PHE	60.	26.411	15.626	0.379	1.00 38.22	Cl
MOTA	2249	C	PHE	60	23.815	17.239	3.606	1.00 35.65	Cl
ATOM	2250	0	PHE	60	23.355	17.504	2.497	1.00 35.06	Cl
ATOM	2251	N	SER	61	23.196	16.441	4.470	1.00 36.40	Cl
MOTA	2252	CA	SER	61	21.940	15.852	4.072	1.00 37.14	Cl
ATOM	2253	CB	SER	61	21.545	14.691	5.006	1.00 36.12	C1
ATOM	2254	OG	SER	61	20.814	15.139	6.126	1.00 35.05	Cl
ATOM	2255	C	SER	61	20.869	16.940	4.016	1.00 37.16	Cl
ATOM	2256	.0	SER	61	19.964	16.870	3.190	1.00 38.46	Cl
ATOM	2257	И	LYS	62	20.970	17.955	4.857	1.00 37.48	Cl
ATOM	2258	CA	LYS	62	19.954	19.006	4.813	1.00 37.83	. C1
ATOM	2259	СВ	LYS	62	20.021	19.903	6.021	1.00 38.42	Cl
ATOM	2260	CG	LYS	62	19.610	19.236	7.327	1.00 40.35	Cl
MOTA	2261	8	LYS	62 ·	19.854	20.259	8.406	1.00 41.61	Cl
MOTA	2262	CE	LYS	62	19.418	19.814	9.748	1.00 43.22	Cl
ATOM	2263	NZ	LYS	62	18.737	20.988	10.385	1.00 44.06	Cl
ATOM	2264	C	LYS	62	20.178	19.805	3.557	1.00 37.95	Cl
ATOM	2265	0	LYS	62	19.233	20.045	2.826	1.00 37.84	C1
ATOM	2266	N	ALA	63	21.425	20.183	3.293	1.00 38.21	C1 C1
ATOM	2267	CA	ALA	63 63	21.790	20.925	2.090	1.00 39.70	. C1
ATOM ATOM	2268 2269	CB C	ALA ALA	63 63	23.306	21.094	1.994	1.00 38.23	C1
ATOM			ALA	63	21.308	20.245	0.811	1.00 40.84	Cl
ATOM	2270	O	PHE		20.823	20.897	-0.098	1.00 40.84	Cl
ATOM	2271	N	PHE	64 64	21.513	18.939	0.737	1.00 43.43	Cl
WI OW	2272	CA	PRE	0 %	21.137	18.134	-0.423	T.00 43.43	

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MOTA	2273	CB	PHE	64	21.748	16.747	-0.186	1.00 44.71	Cl
MOTA	2274	CG	PHE	64	21.435	15.714	-1.242	1.00 46.29	Cl
MOTA	2275	CD1	PHE	64	22.246	15.577	-2.371	1.00 47.02	Cl
ATOM	2276		PHE	64	20.373	14.808	-1.059	1.00 47.22	Cl
ATOM	2277		PHE	<b>64</b> '	22.019	14.543	-3.300	1.00 47.15	Cl
ATOM	2278	CE2	PHE	64	20.135	13.762	-1.985	1.00 47.50	Cl
MOTA	2279	CZ	PHE	64	20.968	13.638	-3.107	1.00 46.63	Cl
ATOM	2280	С	PHE	64	19.587	18.095	-0.581	1.00 43.41	Cl
MOTA	2281	0	PHE	64	19.077	17.679	-1.608	1.00 43.04	Cl
ATOM	2282	N	GLY	65	18.861	18.515	0.464	1.00 44.00	Cl
MOTA	2283	CA	GLY	65	17.401	18.551	0.442	1.00 44.61	Cl
ATOM	2284	C	GLY	65	16.547	17.360	0.900	1.00 45.23	Cl
ATOM	2285	0	GLY	65	15.319	17.481	1.024	1.00 44.77	C1
ATOM	2286	N	THR	66	17.162	16.214	1.173	1.00 46.05	C1
ATOM	2287	CA	THR	66	16.371	15.047	1.573	1.00 46.97	Cl
ATOM	2288	CB	THR	66	16.677	13.833	0.689	1.00 46.94	Cl
ATOM	2289	0G1		66	18.043	13.416	0.900	1.00 47.06	Cl
ATOM	2290	CG2	THR	66	16.451	14.197	-0.760	1.00 46.70	Cl
ATOM	2291	C	THR	66	16.499	14.540	2.986	1.00 47.71	Cl
ATOM	2292	0	THR	66	15.578	13.908	3.488	1.00 47.47	Cl
MOTA	2293	N	GLY	67	17.628	14.819	3.638	1.00 48.74	Cl
MOTA	2294	CA	GLY	67	17.816	14.259	4.966	1.00 49.20	Cl
ATOM	2295	C	GLY	67	18.312	12.825	4.726	1.00 49.52	C1
ATOM	2296	0	GLY	67	18.463	12.380	3.569	1.00 49.17	Cl
ATOM	2297	N	ILE	68	18.599	12.106	5.802	1.00 50.08	Cl
ATOM	2298	CA	ILE	68	19.068	10.726	5.679	1.00 50.36	C1
ATOM	2299	CB	ILE	68	19.859	10.258	6.956	1.00 49.26	C1
ATOM ATOM	2300 2301	CG2	ILE ILE	68	20.194	8.758	6.867	1.00 47.83	Cl
ATOM	2301		ILE	68 68	21.154	11.072	7.095	1.00 48.45	Cl
ATOM	2302	C	ILE	68	22.032	11.086	5.836	1.00 47.51	Cl
ATOM	2304	0	ILE	68	17.841 16.796	9.846 10.053	5.458	1.00 51.41	Cl
ATOM	2305	N	GLY	69	17.970	8.885	6.088 4.550	1.00 52.16 1.00 51.45	Cl
ATOM	2306	CA	GLY	69	16.876	7.988	4.246	1.00 51.45	C1 C1
ATOM	2307	c	GLY	69	17.034	7.313	2.887	1.00 51.85	Cl
ATOM	2308	ō	GLY	69	18.136	6.957	2.487	1.00 51.77	Cl
ATOM	2309	И	ALA	70	15.921	7.156	2.174	1.00 52.21	Cl
ATOM	2310	CA	ALA	70	15.907	6.512	0.872	1.00 52.38	Cl
ATOM	2311	CB	ALA	70	14.459	6.445	0.355	1.00 52.35	Cl
ATOM	2312	c	ALA	70	16.806	7.202	-0.156	1.00 52.84	Cl
ATOM	2313	o	ALA	70	17.647	6.563	-0.801	1.00 53.61	Ci
ATOM	2314	N	GLN	71	16.641	8.512	-0.300	1.00 52.78	Cl
ATOM	2315	CA	GLN	71	17.411	9.283	-1.272	1.00 52.79	, C1
ATOM	2316	CB	GLN	71	16.740	10.668	-1.450	1.00 53.71	Cı
ATOM	2317	CG	GLN	71	15.196	10.560	-1.487	1.00 54.85	C1.
ATOM	2318	æ	GLN	71	14.471	11.904	-1.600	1.00 56.44	Cl
ATOM	2319	OE1	GLN	71	14.610	12.623	-2.623	1.00 56.95	Cl
ATOM	2320	NE2	GLN	71	13.689	12.262	-0.548	1.00 55.97	Cl
ATOM	2321	C	GLN	71	18.910	9.433	-0.974	1.00 51.80	Cl
ATOM	2322	0	GLN	71	19.691	9.693	-1.900	1.00 52.03	Cl
MOTA	2323	N	LEU	72	19.316	9.270	0.293	1.00 50.94	Cl
ATOM	2324	CA	LEU	72	20.741	9.423	0.689	1.00 49.64	Cl
MOTA	2325	CB	LEU	72	21.143	10.909	0.726	1.00 48.92	Cl
ATOM	2326	CG	LEU	72	22.541	11.397	1.155	1.00 47.24	Cl
ATOM	2327		LEU	72	23.540	11.368	-0.012	1.00 45.52	Cl
ATOM	2328		LEU	72	22.382	12.825	1.665	1.00 47.11	Cl
ATOM	2329	C	LEU	72	21.119	8.815	2.029	1.00 49.40	Cl

MOTA	2330	0	LEU	72	20.426	9.008	3.057	1.00 48.89	Cl
MOTA	2331	N	SER	73	22.256	8.120	2.004	1.00 48.75	Cl
MOTA	2332	CA	SER	73	22.801	7.450	3.173	1.00 48.80	Cl
MOTA	2333	CB	SER	73	23.008	5.952	2.845	1.00 49.54	Cl
MOTA	2334	OG	SER	73	23.967	5.331	3.711	1.00 50.91	Cl
ATOM	2335	C	SER	73	24.136		3.677	1.00 48.34	Cl
ATOM	2336	0	SER	73	24.914	8.609	2.915	1.00 48.05	Cl
MOTA	2337	N	PHE	74	24.390	7.813	4.967	1.00 47.81	Cl
ATOM	2338	CA	PHE	74	25.625	8.201	5.636	1.00 47.50	Cl
ATOM	2339	CB	PHE	74	25.664	7.615	7.041	1.00 47.20	Cl
ATOM	2340	CG	PHE	74	24.715	8.259	8.002	1.00 47.29	Cl
MOTA	2341		PHE	74	24.850	9.620	8.337	1.00 46.98	Cl
MOTA	2342		PHE	74	23.726	7.508	8.627	1.00 46.60	Cl
MOTA	2343		PHE	74	24.026	10.216	9.278	1.00 45.88	Cl
MOTA	2344	CE2		74	22.893	8.104	9.572	1.00 46.36	Cl
ATOM	2345	CZ	PHE	74	23.051	9.465	9.895	1.00 45.98	Cl
MOTA	2346	C	PHE	74	26.798	7.608	4.893	1.00 48.02	Cl
ATOM	2347	0	PHE	74	27.849	8.235	4.714	1.00 47.41	Cl
MOTA	2348	N	GLN	75	26.615	6.364	4.472	1.00 48.84	Cl
ATOM	2349	CA	GLN	75	27.666	5.644	3.785	1.00 49.52	Cl
MOTA	2350	CB	GLN	75	27.278	4.168	3.684	1.00 50.19	Cl
MOTA	2351	CG	GLN	75	27.029	3.513	5.046	1.00 50.48	Cl
MOTA	2352	CD	GLN	75	28.285	3.526	5.886	1.00 51.73	Cl
ATOM	2353		GLN	75	29.353	3.130	5.412	1.00 52.49	Cl
MOTA	2354	NE2		75	28.180	3.985	7.126	1.00 51.45	Cl
ATOM	2355	C	GLN	75	27.988	6.235	2.421	1.00 49.96	C1
ATOM	2356	0	GLN	75	29.017	5.907	1.825	1.00 50.48	C1
MOTA	2357	И	ASP	76	27.130	7.122	1.927	1.00 50.43	Cl
ATOM	2358	CA	ASP	76	27.365	7.761	0.619	1.00 50.67	Cl
MOTA	2359	CB	ASP	76	26.054	8.166	-0.046	1.00 51.37	Cl
ATOM	2360	CG	ASP	76	25.287	6.997	-0.560	1.00 52.52	Cl
ATOM	2361		ASP	76	25.891	6.193	-1.301	1.00 52.95	Cl
ATOM	2362		ASP	<b>76</b>	24.086	6.888	-0.224	1.00 53.95	Cl
ATOM	2363	C	ASP	76	28.184	9.026	0.765	1.00 50.43	Cl
ATOM	2364	0	ASP	76	28.669	9.579	-0.223	1.00 51.13	Cl
ATOM	2365	N	ILE	7 <b>7</b>	28.317	9.481	2.006	1.00 49.70	Cl
MOTA	2366	CA	ILE	77	29.031	10.701	2.309	1.00 48.67	Cl
ATOM	2367	CB	ILE	77	28.211	11.559	3.253	1.00 47.95	Cl
MOTA	2368	CG2		77	28.817	12.936	3.353	1.00 47.84	Cl
MOTA	2369		ILE	77	26.746	11.564	2.789	1.00 48.00	C1
ATOM	2370	CD1	ILE	77	25.808	12.444	3.603	1.00 47.22	C1
ATOM	2371	C	ILE	77	30,368	10.440	2.978	1.00 48.96	CI
MOTA	2372	0	ILE	77	30.434	9.757	3.997	1.00 48.72	Cl
MOTA	2373	N	GLU	78	31.440	10.969	2.408	1.00 48.68	,C1
MOTA	2374	CA	GLU	78	32.704	10.799	3.073	1.00 49.55	Cl
MOTA	2375	CB	GLU	78 ·		9.823	2.333	1.00 51.11	Cl
MOTA	2376	CG	GLT	78	34.970	9.720	3.028	1.00 52.90	. C1
MOTA	2377	CD	GLU	78	35.794	8.537	2.593	1.00 54.48	Cl
MOTA	2378		GLU	78	37.012	8.540	2.910	1.00 55.00	Cl
MOTA	2379	OE2		78	35.224	7.615	1.953	1.00 55.86	Cl
ATOM	2380	C	GLU	78	33.438	12.115	3.287	1.00 48.60	Cl
ATOM	2381	0	GLU	78	33.607	12.901	2.361	1.00 48.62	Cl
ATOM	2382	N	ILE	79	33.877	12.325	4.526	1.00 47.38	Cl
ATOM	2383	CA	ILE	79	34.619	13.513	4.920	1.00 45.83	Cl
MOTA	2384	CB	ILE	79	34.182	14.038	6.320	1.00 44.21	Cl
ATOM	2385		ILE	79	35.248	15.001	6.849	1.00 43.54	Cl
ATOM	2386	CG1	ILE	79	32.840	14.777	6.243	1.00 43.11	Cl

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ATOM	2387		1 ILE	79	31.649		6.253	1.00 42.90	
ATOM	2388	-	ILE	79	36.115	13.204	5.008		Cl
ATOM	2389		ILE	79	36.524		5.704		C1
ATOM	2390		ARG	80	36.931	13.978	4.308		C1
ATOM	2391			80	38.381	13.810	4.363		C1
ATOM	2392		ARG	80	38.918	.13.306	3.023		C1
ATOM	2393		ARG	80	38.470	11.879	2.682		Cl
ATOM	2394		ARG	80	39.177		1.415		Cl
ATOM	2395		ARG	80	38.299		0.673	1.00 59.57	C1
ATOM	2396		ARG	80	38.580	9.892	-0.520		Cl
ATOM	2397		1 ARG	80 -	37.705	9.082	-1.102	1.00 62.00	Cl
ATOM	2398			80	39.732		-1.133	1.00 61.67	Cl
ATOM	2399		ARG	80	38.998	15.154	4.702	1.00 47.04	Cl
ATOM	2400	0	ARG	80	38.302	16.172	4.696	1.00 46.98	C1
ATOM	2401	N	LYS	81	40.285	15.164	5.021	1.00 46.29	Cl
ATOM	2402	CA	LYS	81	40.969	16.429	5.316	1.00 46.35	C1
ATOM	2403	CB	LYS	81	41.221	16.598	6.822	1.00 46.33	Cl
ATOM	2404	CG	LYS	81	40.018	17.101	7.625	1.00 46.29	Cl
ATOM	2405	CD	LYS	81	40.403	17.303	9.096	1.00 46.81	Cl
ATOM	2406	CE	LYS	81	39.246	17.784	9.958	1.00 46.26	Cl
ATOM	2407	NZ	LYS	81	39.660	17.771	11.416	1.00 46.08	C1
ATOM	2408	C	LYS	81	42.312	16.573	4.592		Cl
ATOM	2409	0	LYS	81	43.110	15.630	4.573	1.00 46.05	Cl
MOTA	2410	N	ASP	82	42.576	17.753	4.017	1.00 45.90 1.00 45.41	Cl
ATOM	2411	CA	ASP	82	43.872	17.963	3.356		Cl
MOTA	2412	CB	ASP	82	43.782	19.022	2.231	1.00 45.00	Cl
MOTA	2413	CG	ASP	82	43.524	20.455	2.742	1.00 43.78 1.00 43.90	C1
MOTA	2414	OD1	ASP	82	43.895	20.840	3.884		C1
ATOM	2415	OD2	ASP	82	42.962	21.224	1.935	1.00 42.17	Cl
ATOM	2416	C	ASP	82	44.983	18.330	4.374	1.00 43.52 1.00 44.67	C1
ATOM	2417	ο΄	ASP	- 82	44.750	18.333	5.598	1.00 43.85	Cl
ATOM	2418	N	GLN	83	46.172	18.643	3.855		Cl
ATOM	2419	CA	GLN	83	47.359	18.986	4.671	1.00 44.78	C1
ATOM	2420	CB	GLN	83	48.573	19.193	3.759	1.00 45.33	Cl
MOTA	2421	CG	GLN	83	49.490	18.021	3.641	1.00 45.91	C1
MOTA	2422	CD	GLN	83	48.747	16.733	3.714	1.00 46.80	Cl
MOTA	2423	OE1	GLN	83	48.676	16.113	4.793	1.00 48.38	Cl
ATOM	2424	NE2	GLN	83	48.152	16.315	2.584	1.00 49.41	C1
ATOM	2425	C	GLN	83	47.240	20.217	5.550	1.00 47.83	Cl
ATOM	2426	0	GLN	83	48.041	20.408	6.448	1.00 44.80	Cl
ATOM	2427	N	ASN	84	46.254	21.060	5.250	1.00 44.50	Cl
ATOM	2428	CA	ASN	84	46.013	22.296	5.991	1.00 44.80	Cl
ATOM	2429	CB	ASN	84	45.585	23.412	5.032	1.00 44.29	C1
MOTA	2430	CG	ASN	84	46.747	24.027		1.00 44.06	Cl
MOTA	2431		ASN	84	46.624	24.390	4.289	1.00 44.62	C1
ATOM	2432		ASN	84	47.874	24.174	3.111	1.00 44.59	C1 .
ATOM	2433	C	ASN	84	44.898	22.048	4.969	1.00 43.72	C1
ATOM	2434	0	ASN	84	44.510		6.995	1.00 43.71	C1
ATOM	2435	N	GLY	85	44.389	22.956 20.814	7.742	1.00 43.04	C1
ATOM	2436	CA	GLY	85	43.311		6.978	1.00 43.44	C1
ATOM	2437	C	GLY	85	41.948	20.406	7.867	1.00 42.84	C1
MOTA	2438	ō	GLY	85		20.869	7.404	1.00 42.40	C1
MOTA	2439	N	LYS	86	41.025	20.958	8.209	1.00 43.31	Cl
ATOM	2440		LYS	86	41.808	21.182	6.123	1.00 41.80	Cl
ATOM	2441		LYS	86	40.519	21.633	5.609	1.00 42.19	Cl
ATOM	2442		LYS	86	40.674	22.537	4.380	1.00 41.23	C1
ATOM	2443		LYS	86	39.386	23.217	3.952	1.00 41.66	C1
		-		00	39.513	23.859	2.566	1.00 42.36	Cl

MOTA	2444	CE	LYS	86	38.541	23.239	1.522	1.00 43.64	. C1
ATOM	2445	NZ	LYS	86	38.374	24.125	0.287	1.00 44.71	Cl
ATOM	2446	C	LYS	86	39.738	20.396	5.231	1.00 42.58	Cl
ATOM	2447	0	LYS	86	40.219	19.540	4.495	1.00 42.76	Cl
ATOM	2448	N	PRO	87	38.516	20.282	5.743	1.00 43.20	Cl
ATOM	2449	CD	PRO	87	37.872	.21.103	6.786	1.00 43.03	
ATOM	2450	CA	PRO	87	37.715	19.113	5.422	1.00 43.03	C1
ATOM	2451	CB	.PRO	87	36.722	19.061	6.555		Cl
ATOM	2452	CG	PRO	87	36.488	20.526		1.00 43.23	Cl
ATOM	2453	C	PRO	87	37.056		6.838	1.00 43.31	Cl
ATOM	2454	Ö	PRO	87	36.907	19.322	4.111	1.00 43.97	C1
ATOM	2455	И	TYR	88		20.464	3.651	1.00 43.98	Cl
ATOM	2456	CA	TYR	88	36.711	18.214	3.484	1.00 44.08	Cl
ATOM	2457				36.033	18.278	2.230	1.00 45.68	Cl
		CB	TYR	88	37.015	18.472	1.034	1.00 47.43	Cl
ATOM	2458	CG	TYR	. 88	38.189	17.526	0.886	1.00 49.08	Cl
ATOM	2459		TYR	88	38.194	16.521	-0.107	1.00 50.60	Cl
ATOM	2460	CE1		88	39.336	15.701	-0.334	1.00 50.63	Cl
ATOM	2461	CD2	TYR	88	39.341	17.681	1.660	1.00 49.84	Cl
ATOM	2462	CE2	TYR	88	40.476	16.862	1.450	1.00 50.93	Cl
ATOM	2463	CZ	TYR	88	40.464	15.885	0.451	1.00 51.22	Cl
ATOM	2464	OH	TYR	88	41.590	15.120	0.244	1.00 52.41	Cl
ATOM	2465	C	TYR	88	35.215	17.026	2.127	1.00 46.37	Cl
ATOM	2466	0	TYR	88	35.549	16.010	2.721	1.00 45.65	Cl
ATOM	2467	N	ILE	89	34.103	17.124	1.419	1.00 47.63	Cl
ATOM	2468	CA	ILE '	89	33.221	15.998	1.275	1.00 50.50	Cl
MOTA	2469	CB	ILE	89	31.754	16.402	1.541	1.00 49.66	C1
MOTA	2470	CG2	ILE	89	30.825	15.216	1.273	1.00 48.82	Cl
MOTA	2471	CG1	ILE	89	31.627	16.905	2.972	1.00 49.02	Cl
ATOM	2472	CD1	ILE	89	30.227	17.264	3.369	1.00 48.76	Cl
MOTA	2473	C	ILE	89	33.276	15.340	-0.095	1.00 52.86	Cl
ATOM	2474	0	ILE	89	33.365	16.004	-1.123	1.00 53.08	Cl
MOTA	2475	N	ILE	90	33.229	14.021	-0.093	1.00 55.54	Cl
ATOM	2476	CA	ILE	90	33.199	13.295	-1.334	1.00 58.03	Cl
ATOM	2477	CB	ILE	90	34.292	12.261	-1.404	1.00 57.72	C1
ATOM	2478	CG2	ILE	90	34.455		-2.851	1.00 57.78	Cl
ATOM	2479	CG1	ILE	90	35.618	12.870	-0.947	1.00 58.26	Cl
ATOM	2480	CD1		90	36.152	13.997	-1.880	1.00 58.15	C1
ATOM	2481	C	ILE	90	31.843	12.610	-1.309	1.00 59.92	Cl
ATOM	2482	0	ILE	90	31.460	12.005	-0.309	1.00 60.54	Cl
ATOM	2483	N	CYS	91	31.085	12.767	-2.375	1.00 62.06	Cl
ATOM	2484	CA	CYS	91	29.789	12.135	-2.442	1.00 65.02	Cl
ATOM	2485	CB	CYS	91	28.729	12.879	-1.636	1.00 64.53	Cl
ATOM	2486	SG	CYS	91	27.007	12.228	-1.893	1.00 65.15	C1
ATOM	2487	C	CYS	91	29.339	12.047	-3.872	1.00 67.19	Cl
ATOM	2488	ō	CYS	91	28.809	13.012	-4.450	1.00 67.13	C1
ATOM	2489	N	THR	92	29.597	10.892	-4.463	1.00 69.14	Cl
ATOM	2490	CA	THR	92	29.160	10.677	-5.812	1.00 71.19	Cl
ATOM	2491	СВ	THR	92	29.160	9.525	-6.462	1.00 71.19	Cl
ATOM	2492	0G1		92	29.521			1.00 71.08	
ATOM	2493	CG2		92		8.282	-5.894		C1
ATOM	2494	C	THR	92	31.453	9.721	-6.224	1.00 70.41	Cl
ATOM	2495	Ö			27.722	10.304	-5.485	1.00 72.70	Cl
ATOM	2495		THR	92	27.446	9.328	-4.768	1.00 73.09	Cl
ATOM		N	LYS	93	26.842	11.183	-5.932	1.00 74.04	Cl
	2497	CA	LYS	93 63	25.406	11.099	-5.769	1.00 75.40	C1
ATOM	2498	CB	LYS	93	24.979	11.225	-4.318	1.00 75.38	Cl
ATOM	2499	CG	LYS	93	24.537	9.897	-3.689	1.00 75.40	C1
ATOM	2500	CD	LYS	93	23.074	9.583	-3.977	1.00 75.01	Cl

MOTA	2501	. CE	LYS	93	22.649	8.273	-3.321		
MOTA	2502	NZ	LYS	93	21.168	8.059			Cl
MOTA	2503	C	LYS	93	25.077	12.351			Cl
ATOM	2504		LYS	93	24.070				Cl
ATOM	2505		LEU	94	26.036	12.641	-7.405		C1
ATOM	2506		LEU	94	26.063		-8.361		' C1
ATOM	2507			94	24.692	14.417	-8.499		Cl
ATOM	2508			94	24.161	14.260	-9.936		Cl
ATOM	2509		1 LEU	94	25.097	14.972	-10.908	1.00 79.46	Cl
ATOM	2510		2 LEU	94	24.057		-10.301	1.00 79.49	C1
ATOM	2511		LEU	94	27.140	14.797	-8.236	1.00 79.47	C1
ATOM	2512	0	LEU	94	27.454	15.308	-7.149	1.00 78.47	C1
ATOM	2513	И	SER	95	27.732	15.068	-9.394	1.00 77.80	C1
ATOM	2514	CA	SER	95	28.721	16.095	-9.540	1.00 77.11	Cl
ATOM	2515	CB	SER	95	29.745		-10.618	1.00 77.11	C1
ATOM	2516		SER	95	31.066	15.770	-10.095	1.00 77.30	Cl
ATOM	2517	C	SER	95	27.801	17.221	-10.024	1.00 76.59	Cl
ATOM	2518	0	SER	95	26.679	17.383	-9.499	1.00 76.68	Cl
ATOM	2519	И	ALA	96	28.234		-11.053	1.00 75.05	Cl
ATOM	2520	CA	ALA	96	27.455	19.086	-11.550	1.00 73.03	Cl
ATOM	2521	CB	ALA	96	26.078		-12.037	1.00 73.32	Cl
ATOM	2522	C	ALA	96	27.318	20.027	-10.330	1.00 71.45	C1
ATOM .	2523	0	ALA	96	26.471	20.959	-10.324	1.00 72.20	C1
ATOM	2524	N	ALA	97	28.182	19.779	-9.323	1.00 68.24	Cl
MOTA	2525	CA	ALA	97	28.200	20.528	-8.066	1.00 64.53	Cl
MOTA	2526	CB	ALA	97 ·	26.974	20.148	-7.236	1.00 64.01	Cl
ATOM	2527	C	ALA	97	29.461	20.384	-7.202	1.00 61.89	C1 C1
ATOM	2528	0	ALA	97	29.994	19.301	-7.005	1.00 61.20	C1
ATOM	2529	N	ALA	98	29,925	21.507	-6.678	1.00 59.31	Cl
ATOM	2530	CA	ALA	98	31.081	21.535	-5.794	1.00 56.05	Cl
ATOM	2531	CB	ALA	98	31.933	22.771	-6.084	1.00 55.80	Cl
ATOM	2532	C	ALA	98	30.465	21.618	-4.400	1.00 53.71	Cl
ATOM	2533	0	ALA	98.	29.341	22.108	-4.253	1.00 52.98	Cl
MOTA	2534	N	VAL	99	31.195	21.146	-3.391	1.00 50.77	Cl
ATOM	2535	CA	VAL	99.	30.700	21.160	-2.017	1.00 47.45	Cl
ATOM	2536	CB	VAL	99	30.513	19.706	-1.466	1.00 47.53	Cl
MOTA	2537		VAL	99	29.641	19.692	-0.210	1.00 47.19	Cl
ATOM	2538	CG2		99	29.933	18.819	-2.529	1.00 46.70	Cl
ATOM	2539	C	VAL	99	31.693	21.864	-1.107	1.00 45.49	Cl
ATOM	2540	0	VAL	99	32.904	21.743	-1.284	1.00 44.20	Cl
ATOM	2541	N	HIS	100	31.168	22.613	-0.141	1.00 43.53	Cl
MOTA MOTA	2542	CA	HIS	100	32.008	23.282	0.851	1.00 41.02	C1
ATOM	2543	CB	HIS	100	31.926	24.804	0.764	1.00 42.26	Cl
ATOM	2544	CG	HIS	100	32.416	25.362	-0.526	1.00 43.68	C1
	2545		HIS	100	33.671	25.597	-0.971	1.00 44.46	Cl
ATOM	2546		HIS	100	31.563	25.698	-1.559	1.00 44.71	Cl
ATOM	2547		HIS	100	32.278	26.112	-2.593	1.00 45.41	Cl
ATOM ATOM	2548		HIS	100	33.558	26.060	-2.263	1.00 46.23	Cl
	2549	C	HIS	100	31.487	22.853	2.227	1.00 39.34	Cl
ATOM	2550	0	HIS	100	30.277	22.772	2.477	1.00 37.89	Cl
ATOM	2551	N	VAL	101	32.423	22.599	3.124	1.00 37.22	Cı
ATOM ATOM	2552	CA	VAL	101	32.081	22.169	4.463	1.00 35.34	Cl
	2553	CB	VAL	101	32.273	20.644	4.612	1.00 34.50	Cl
ATOM	2554		VAL	101	33.691	20.325	4.422	1.00 34.09	Cl
ATOM	2555		VAL	101	31.847	20.179	5.973	1.00 33.26	Cl
ATOM ATOM	2556	C	VAL	101	32.994	22.813	5.450	1.00 33.51	Cl
ALUM	2557	0	VAL	101	34.133	23.106	5.139	1.00 33.22	Cl

MOTA	2558	N	SER	102	32.488	23.006	6.655	1.00 32.89	Cl
ATOM	2559	CA	SER	102	33.282	23.547	7.750	1.00 31.81	C1
MOTA	2560°	CB	SER	102	33.077	25.044	7.919	1.00 32.65	C1
MOTA	2561	OG	SER	102	34.008	25.557	8.884	1.00 32.76	Cl
MOTA	2562	C	SER	102	32.786	22.837	8.993	1.00 32.14	Cl
ATOM	2563	0	SER	102	31.595	.22.633	9.145	1.00 31.51	Cl
MOTA	2564	N	ILE	103	33.708	22.478	9.887	1.00 32.69	Cl
MOTA	2565	CA	ILE	103	33.383	21.774	11.127	1.00 32.36	C1
ATOM	2566	CB	ILE	103	33.837	20.322	11.005	1.00 32.02	Cl
ATOM	2567	CG2	ILE	103	33.518	19.539	12.311	1.00 30.43	Cl
ATOM	2568	CG1	ILE	103	33.186	19.731	9.757	1.00 29.77	Cl
MOTA	2569	CD1	ILE	103	33.800	18.433	9.328	1.00 31.21	Cl
ATOM	2570	C	ILE	103	34.097	22.437	12.308	1.00 33.22	Cl
MOTA	2571	0	ILE	103	35.255	22.798	12.203	1.00 33.37	Cl
ATOM	2572	N	THR	104	33.402	22.589	13.425	1.00 33.89	Cl
ATOM	2573	CA	THR	104	33.952	23.222	14.592	1.00 34.64	Cl
ATOM	2574	CB	THR	104	33.523	24.685	14.643	1.00 35.31	Cl
ATOM	2575		THR	104	34.073	25.322	15.805	1.00 36.64	Cl
ATOM	2576	CG2	THR	104	32.025	24.774	14.697	1.00 35.83	Cl
ATOM	2577	C	THR	104	33.484	22.531	15.865	1.00 34.82	Cl
ATOM	2578	0	THR	104	32.392	21.970	15.930	1.00 35.84	Cl
ATOM	2579	N	HIS	105	34.305	22.606	16.894	1.00 34.86	C1
ATOM	2580	CA	HIS	105	33.998	21.958	18.158	1.00 35.82	Cl
ATOM	2581	CB	HIS	105	34.956	20.792	18.452	1.00 34.73	Cl
ATOM	2582		HIS	105	34.945	19.743	17.398	1.00 34.83	Cl
ATOM	2583		HIS	105	35.695	19.603	16.277	1.00 33.18	Cl
ATOM	2584		HIS	105	34.027	18.711	17.391	1.00 34.52	Cl
ATOM	2585		HIS	105	34.213	17.979	16.306	1.00 35.06	Cl
ATOM	2586		HIS	105	35.217	18.497	15.615	1.00 34.71	Cl
ATOM	2587	C	HIS	105	34.158	22.908	19.280	1.00 35.73	Cl
ATOM	2588	0	HIS	105	34.987	23.794	19.246	1.00 33.92	Cl
ATOM	2589	N	THR	106	33,390	22.611	20.299	1.00 36.77	Cl
ATOM	2590	CA	THR	106	33.355	23.348	21.524	1.00 40.09	Cl
ATOM	2591	CB	THR	106	32.082	24.176	21.508	1.00 40.79	Cl
ATOM	2592	0G1		106	32.299	25.425	22.156	1.00 43.54	C1
ATOM	2593	CG2	THR	106	30.992	23.443	22.156	1.00 42.68	Cl
ATOM	2594	C	THR	106	33.358	22.224	22.608	1.00 41.25	C1
ATOM	2595	0	THR	106	33.425	21.023	22.265	1.00 41.69	Cl
ATOM	2596		ALA	107	33.304	22.574	23.894	1.00 42.12	Cl
ATOM	2597	CA	ALA	107	33.328	21.526	24.912	1.00 42.01	C1
ATOM	2598	.CB	ALA	107	33.557			1.00 43.25	C1
atom Atom	2599 2600	C	ALA ALA	107	32.003	20.768	24.874	1.00 42.28	Cl
ATOM	2601	<b>и</b> О	GLU	107	31.972	19.556	25.012	1.00 42.24	Cl
ATOM	2602	CA		108	30.907	21.482	24.667	1.00 42.09	.C1
ATOM	2603	CB	GLU	108	29.604	20.842	24.612	1.00 41.95	Cl
MOTA	2604	CG	GLU GLU	108	28.538	21.761	25.204	1.00 44.03	Cl
MOTA	2605	CD	GTA	108	28.709	22.065	26.689	1.00 48.57	Cl
ATOM	2606		GTA	108 108	27.406 27.493	21.949	27.467	1.00 50.64 1.00 52.40	C1 C1
ATOM	2607		GTO			21.903	28.720	1.00 52.40	
ATOM	2608	C	GLU	108 108	26.306 29.115	21.905	26.838	1.00 31.79	C1 C1
ATOM	2609	0	GLU	108		20.438	23.226		Cl
MOTA	2610	И	TYR	109	28.259 29.660	19.572	23.112	1.00 40.77 1.00 38.80	Cl
ATOM	2611	CA	TYR	109	29.550	21.031	22.173	1.00 38.80	Cl
MOTA	2612	СВ	TYR	109	28.242	20.760	20.851	1.00 35.61	Cl
ATOM	2613	CG	TYR	109		21.950	20.431	1.00 37.49	Cl
ATOM	2614		TYR	109	27.115 25.930	22.270	21.350	1.00 39.55	C1
WT 01.7	~~~~	TO I	***	103	23.330	21.532	21.323	1.00 33.33	CI

MOTA	2615	CEL	TYR	109	24.865	21.844	22.169	1.00 40.62	Cl
MOTA	2616	CD2	TYR	109	27.215	23.324	22.242	1.00 40.44	Cl
ATOM	2617	CE2	TYR	109	26.166	23.652	23.088	1.00 40.89	Cl
ATOM	2618	CZ	TYR	109	24.997	22.913	23.050	1.00 41.89	Cl
MOTA	2619	OH	TYR	109	23.958	23.262	23.905	1.00 44.16	Cl
MOTA	2620	C	TYR	109	30.033	-20.503	19.682	1.00 34.46	Cl
MOTA	2621	0	TYR	109	31.192	20.822	19.708	1.00 33.77	C1
ATOM	2622	N	ALA	110	29.456	19.905	18.642	1.00 32.46	Cl
MOTA	2623	CA	ALA	110	30.128	19.719	17.376	1.00 30.31	Cl
ATOM	2624	CB	ALA	110	30.296	18.263	17.029	1.00 30.67	Cl
MOTA	2625	C	ALA	110	29.083	20.384	16.474	1.00 29.65	Cl
MOTA	2626	0	ALA	110	27.879	20.217	16.667	1.00 29.10	Cl
MOTA	2627	N	ALA	111	29.540	21.163	15.512	1.00 28.10	Cl
MOTA	2628	CA	ALA	111	28.639	21.853	14.609	1.00 26.34	Cl
ATOM	2629	CB	ALA	111	28.478	23.284	15.055	1.00 26.00	Cl
MOTA	2630	C	ALA	111	29.257	21.788	13.211	1.00 25.08	Cl
ATOM	2631	0	ALA	111	30.464	21.589	13.065	1.00 24.72	Cl
ATOM	2632	N	ALA	112	28.441	21.946	12.185	1.00 24.25	C1
ATOM	2633	CA	ALA	112	28.974	21.875	10.820	1.00 24.68	Cl
ATOM	2634	CB	ALA	112	29.189	20.419	10.395	1.00 21.72	Cl
MOTA	2635	C	ALA	112	28.044	22.566	9.838	1.00 25.11	Cl
ATOM ATOM	2636	0	ALA	112	26.848	22.689	10.058	1.00 25.98	Cl
ATOM	2637	N	GLN	113	28.597	23.045	8.753	1.00 26.72	Cl
ATOM	2638 2639	CA	GLN	113	27.749	23.684	7.781	1.00 28.89	Cl
ATOM	2640	CB CG	GLN GLN	113 113	27.860	25.200	7.850	1.00 29.76	Cl
ATOM	2641	CD	GLN	113	29.227	25.758	7.596	1.00 32.46	Cl
ATOM	2642		GLN	113	29.173	27.298	7.531	1.00 33.88	Cl
ATOM	2643	NE2		113	28.130 30.276	27.865	7.233	1.00 36.87	Cl
ATOM	2644	C	GLN	113	28.204	27.955 23.199	7.797 6.447	1.00 34.55 1.00 28.78	Cl
ATOM	2645	ō	GLN	113	29.369	22.848	6.248	1.00 28.78	Cl
ATOM	2646	N	VAL	114	27.259	23.153	5.535	1.00 27.81	C1 C1
ATOM	2647	CA	VAL	114	27.572	22.712	4.204	1.00 29.98	Cl
ATOM	2648	CB	VAL	114	27.078	21.237	3.967	1.00 30.15	Cl
MOTA	2649		VAL	114	27.057	20.936	2.442	1.00 29.05	Cl
ATOM	2650	CG2	VAL	114	27.992	20.250	4.686	1.00 28.96	Cl
ATOM	2651	С	VAL	114	26.876	23.603	3.177	1.00 29.81	Cl
ATOM	2652	0	VAL	114	25.766	24.049	3.378	1.00 29.57	Cl
MOTA	2653	N	VAL	115	27.560	23.858	2.086	1.00 30.84	Cl
MOTA	2654	CA	VAL	115	26.971	24.574	0.986	1.00 32.60	Cl
ATOM	2655	CB	VAL	115	27.618	25.931	0.695	1.00 32.10	Cl
MOTA	2656		VAL	115	27.048	26.474	-0.664	1.00 32.24	Cl
ATOM	2657		VAL	115	27.301	26.925	1.848	1.00 32.42	, C1
MOTA	2658	C	VAL	115	27.195	23.691	-0.241	1.00 34.20	Cl
ATOM	2659	0	VAL	115	28.337	23.287	-0.547	1.00 34.19	Cl
ATOM	2660	N	ILE	116	26.108	23.355	-0.916	1.00 35.87	Cl
ATOM	2661	CA	ILE	116	26.244	22.600	-2.154	1.00 38.89	Cl
ATOM	2662	CB	ILE	116	25.349	21.370	-2.186	1.00 38.31	Cl
ATOM	2663		ILE	116	25.267	20.863	-3.656	1.00 38.34	Cl
MOTA	2664		ILE	116	25.881	20.292	-1.237	1.00 36.78	Cl
ATOM	2665		ILE	116	24.830	19.301	-0.953	1.00 36.94	Cl
ATOM	2666	C	ILE	116	25.753	23.555	-3.263	1.00 40.86	Cl
ATOM	2667	0	ILE	116	24.616	24.034	-3.217	1.00 40.74	Cl
ATOM	2668	N	GLU	117	26.584	23.844	-4.243	1.00 43.03	Cl
ATOM	2669	CA	GLU	117	26.142	24.728	-5.316	1.00 45.86	Cl
ATOM	2670	CB	GLU	117	26.865	26.075	-5.184	1.00 47.20	Cl
MOTA	2671	CG	GLU	117	28.404	25.981	-5.155	1.00 48.86	Cl

ATOM	2672		GLU	117	29.015	27.249	-4.545	1.00 49.86	C1
MOTA	2673		l GLU	117	28.231	28.110	-4.057		Cl
ATOM	2674			117	30.261	27.380	-4.527	1.00 50.18	C1 C1
ATOM	2675		GLU	117	26.395	24.073	-6.677	1.00 46.30	Cl
ATOM	2676		GLU	117	27.005	23.029	-6.745	1.00 45.75	Cl
ATOM	2677	N	ALA	118	25.930	24.667	-7.772	1.00 48.77	Cl
ATOM	2678	CA	ALA	118	26.148	24.030	-9.086	1.00 50.57	Cl
ATOM	2679	CB	ALA	118	24.913	24.136	-9.897	1.00 50.60	Cl
ATOM ATOM	2680	C	ALA	118	27.371	24.456	-9.924	1.00 52.10	Cl
ATOM	2681 2682	OTI		118	28.273	25.169	-9.411	1.00 53.16	Cl
ATOM	2683	OT2		118	27.454	24.034	-11.108	1.00 54.02	Cl
ATOM	2684	N CA	SER SER	0	68.967	23.776	26.894	1.00 20.00	AP1
ATOM	2685	c	SER	0	68.672	23.405	28.273	1.00 20.00	AP1
ATOM	2686	0	SER	. 0	68.067	22.002	28.361	1.00 20.00	AP1
ATOM	2687	CB	SER	0	68.040	21.159	27.474	1.00 20.00	AP1
ATOM	2688	OG	SER	0	68.207	24.675	28.953	1.00 20.00	AP1
ATOM	2689	СВ	ALA	0	69.266	25.630	29.017	1.00 20.00	AP1
ATOM	2690	c	ALA	1	68.176	19.343	30.518	1.00 84.05	AP1
ATOM	2691	ō	ALA	ī	66.353	20.967	31.144	1.00 83.83	AP1
ATOM	2692	N	ALA	ī	65.915	20.207	32.017	1.00 83.53	AP1
ATOM	2693	CA	ALA	i	68.040 67.243	21.577	29.427	1.00 84.15	AP1
ATOM	2694	N	ASP	2	66.766	20.455	30.009	1.00 84.11	AP1
ATOM	2695	CA	ASP	2	66.164	22.112	31.200	1.00 83.55	AP1
MOTA	2696	CB	ASP	2	67.112	23.057 24.243	32.134	1.00 83.11	API
ATOM	2697	CG	ASP	2	66.448	25.416	32.351	1.00 83.20	AP1
ATOM	2698	OD1	ASP	2	65.906	25.229	33.064 34.181	1.00 83.58	AP1
MOTA	2699	OD2	ASP	2	66.481	26.536	32.505	1.00 83.39 1.00 83.39	AP1
ATOM	2700	C	ASP	2	64.857	23.534	31.486	1.00 83.39 1.00 82.74	AP1
ATOM	2701	0	ASP	2	63.759	23.407	32.062	1.00 82.74	AP1
MOTA	2702	N	THR	3	64.988	24.067	30.273	1.00 82.60	AP1
ATOM	2703	CA	THR	3	63.836	24.561	29.539	1.00 80.65	AP1
MOTA	2704	CB	THR	3	64.230	25.062	28.148	1.00 80.87	AP1 AP1
ATOM	2705	OG1	THR	3	64.460	23.941	27.283	1.00 81.31	AP1
ATOM	2706	CG2	THR	3	65.495	25.900	28.237	1.00 80.59	AP1
ATOM	2707	C	THR	3	62.793	23.467	29.379	1.00 79.71	API
ATOM	2708	0	THR	3	61.605	23.759	29.317	1.00 79.30	AP1
ATOM	2709	N	LEU	4	63.222	22.208	29.321	1.00 78.77	AP1
ATOM	2710	CA	LEU	4	62.251	21.132	29.156	1.00 78.22	AP1
ATOM	2711	CB	LEU	4	62.923	19.801	28.851	1.00 77.88	API
ATOM	2712	CG	LEU	4	61.828	18.727	28.731	1.00 77.68	AP1
ATOM	2713		LEU	4	60.998	19.049	27.513	1.00 77.33	AP1
ATOM	2714		LEU	4	62.403	17.321	28.629	1.00 77.20	.AP1
ATOM	2715	C	LEU	4	61.331	20.916	30.346	1.00 78.03	AP1
ATOM	2716	0	LEU	4	60:136	20.639	30.178	1.00 77.68	AP1
MOTA MOTA	2717	N	ALA	5	61.886	21.017	31.549	1.00 77.86	AP1
ATOM	2718	CA	ALA	5	61.085	20.810	32.747	1.00 77.70	AP1
ATOM	2719 2720	СВ	ALA	5	62.017	20.587	33.932	1.00 78.40	AP1
ATOM	2721	C	ALA	5	60.210	22.036	33.016	1.00 76.70	AP1
ATOM	2722	0	ALA	5	59.170	21.935	33.663	1.00 76.78	AP1
ATOM	2723	N	ARG	6	60.632	23.190	32.514	1.00 75.48	AP1
ATOM	2724	CA CB	ARG	6	59.832	24.397	32.661	1.00 74.44	AP1
ATOM	2725	CG	ARG	6	60.684	25.657	32.435	1.00 73.87	AP1
ATOM	2726	CD	ARG	6	61:473	26.120	33.670	1.00 73.31	AP1
ATOM	2727	NE	ARG	6	61.862	27.604	33.562	1.00 72.64	AP1
ATOM	2728	CZ	ARG	6	63.062	27.818	32.760	1.00 71.95	AP1
	~.20		ARG	6	63.467	28.995	32.277	1.00 71.96	AP1

MOTA	2729	NHl	ARG	6	62.761	30.091	32.501	1.00 71.89	AP1
ATOM	2730	NH2	•	6	64.600	29.082	31.580	1.00 71.79	AP1
ATOM	2731	C	ARG	6	58.668	24.341	31.640	1.00 74.00	AP1
ATOM	2732	0	ARG	. <b>6</b>	57.600	24.921	31.880	1.00 74.10	AP1
ATOM	2733	N	VAL	7	58.882	23.635	30.519	1.00 72.52	AP1
MOTA	2734	CA	VAL	7	57.875	23.476	29.474	1.00 71.13	AP1
ATOM	2735	CB	VAL	7	58.528	23.150	28.081	1.00 70.76	AP1
ATOM	2736		VAL	7	57.473	22.682	27.082	1.00 69.94	AP1
ATOM	2737		VAL	7	59.224	24.379	27.531	1.00 70.02	AP1
ATOM	2738	C	VAL	7	56.880	22.362	29.842	1.00 70.99	AP1
ATOM	273,9	0	VAL	7	55.696	22.448	29.487	1.00 70.50	AP1
ATOM	2740	И	THR	8	57.343	21.315	30.532	1.00 70.31	AP1
ATOM	2741	CA	THR	8	56.437	20.228	30.924	1.00 69.89	AP1
MOTA	2742	CB	THR	8	57.207	19.000	31.436	1.00 70.39	API
MOTA	2743	0G1		8	58.176	18.604	30.455	1.00 71.27	AP1
ATOM	2744	CG2		8	56.258	17.844	31.677	1.00 69.84	AP1
ATOM	2745	C	THR	8	55.496	20.740	32.028	1.00 69.21	AP1
ATOM	2746	0	THR	8	54.310	20.395	32.074	1.00 68.80	AP1
ATOM	2747	N	LYS	9	56.033	21.588	32.902	1.00 68.48	AP1
ATOM	2748	CA	LYS	9	55.243	22.183	33.976	1.00 67.55	AP1
ATOM	2749	CB	LYS	9	56.112	23.128	34.830	1.00 67.47	AP1
ATOM	2750	CG	LYS	9	55.319	23.931	35.878	1.00 68.25	AP1
ATOM	2751	CD	LYS	9	56.210	24.545	36.983	1.00 68.59	AP1
ATOM	2752	CE	LYS	9	55.418	25.517	37.861	1.00 68.36	AP1
ATOM	2753	NZ	LYS	9	54.123	24.921	38.323	1.00 68.66	AP1
ATOM	2754	C	LYS	9	54.103	22.966	33.329	1.00 66.72	AP1
ATOM	2755	0	LYS	9	52.939	22.773	33.659	1.00 66.23	AP1
MOTA	2756	N	ILE	10	54.468	23.841	32.395	1.00 66.18	AP1
ATOM	2757	CA	ILE	10	53.531	24.685	31.660	1.00 65.16	AP1
ATOM ATOM	2758	CB	ILE	10	54.291	25.543	30.628	1.00 65.28	AP1
ATOM	2759 2760	CG2 CG1	ILE	10	53.314	26.400	29.843	1.00 64.89	AP1
ATOM	2761	CD1	ILE	10	55.385	26.357	31.319	1.00 64.70	AP1
ATOM	2762	CDI	ILE	10.	55.044	27.783	31.590	1.00 65.19	AP1
ATOM	2762	0	ILE	10	52.441	23.904	30.912	1.00 64.66	AP1
ATOM	2764	И	ILE	10	51.287	24.308	30.896	1.00 64.47	AP1
ATOM	2765	CA	ILE	11	52.815	22.789	30.298	1.00 64.80	AP1
ATOM	2766	CB	ILE	11 11	51.889 52.663	21.963	29.521	1.00 65.01	AP1
ATOM	2767	CG2	ILE	11	51.740	20.931	28.676	1.00 64.05	AP1
ATOM	2768	CG1		11	53.380	19.861	28.151	1.00 63.58	AP1
ATOM	2769	CD1		11	54.255	21.657 20.768	27.546 26.702	1.00 63.60 1.00 63.69	AP1
ATOM	2770	C	ILE	11	50.898	21.251			AP1
ATOM	2771	0	ILE	11	49.685	21.251	30.405 30.202	1.00 66.13	AP1
ATOM	2772	N	VAL	12	51.428	20.538	31.395	1.00 65.72 1.00 67.85	AP1 AP1
ATOM	2773	CA	VAL	12	50.607	19.799	32.342	1.00 67.83	
ATOM	2774	СВ	VAL	12	51.492	19.164	33.428	1.00 70.03	AP1 AP1
ATOM	2775		VAL	12	50.641	18.275	34.359	1.00 70.03	AP1
ATOM	2776		VAL	12	52.600	18.352	32.763	1.00 70.07	AP1
ATOM	2777	C	VAL	12	49.586	20.734	32.992	1.00 70.16	AP1
ATOM	2778	ō	VAL	12	48.399	20.734	33.059	1.00 70.10	AP1
ATOM	2779	N	ASP	13	50.056	21.890	33.455	1.00 71.30	AP1
ATOM	2780	CA	ASP	13	49.181	22.866	34.085	1.00 72.67	AP1
ATOM	2781	СВ	ASP	13	49.946	24.159	34.443	1.00 73.98	AP1
ATOM	2782	CG	ASP	13	50.819	24.135	35.704	1.00 75.23	AP1
ATOM	2783		ASP	13	50.819	22.888	36.255	1.00 75.23	AP1
ATOM	2784		ASP	13	51.440	25.026	36.233	1.00 75.56	AP1
ATOM	2785	C	ASP	13	48.043	23.214	33.148	1.00 73.30	AP1
		-		~~		,-14	22.740	/	

ATOM	2786		ASP	13	46.876	23.099	33.513	1.00 73.09	7.01
ATOM	2787		ARG	14	48.398	23.620	31.931	1.00 73.49	AP1 AP1
ATOM	2788	CA	ARG	14	47.429	24.028	30.931	1.00 73.84	AP1
ATOM	2789		ARG	14	48.141	24.758	29.814	1.00 73.31	AP1
ATOM	2790	CG	ARG	14	48.317	26.230	30.103	1.00 72.15	AP1
ATOM ATOM	2791	CD	ARG	14	47.264	27.078	29.385	1.00 70.90	AP1
ATOM	2792	NE	ARG	14	45.891	26.836	29.822	1.00 69.36	AP1
ATOM	2793 2794	CZ	ARG	14	45.389	27.215	30.997	1.00 68.61	AP1
ATOM	2794	NH1 NH2	_	14	46.138	27.869	31.883	1.00 66.65	AP1
ATOM	2796	C	ARG ARG	14	44.123	26.925	31.282	1.00 67.78	AP1
ATOM	2797	0	ARG	14	46.515	22.990	30.332	1.00 74.92	AP1
ATOM	2798	И	LEU	14 15	45.306	23.073	30.506	1.00 75.02	AP1
ATOM	2799	CA	LEU	15	47.073	22.020	29.621	1.00 76.33	AP1
ATOM	2800	CB	LEU	15	46.254	20.988	28.980	1.00 77.82	AP1
ATOM	2801	CG	LEU	15	47.016 47.558	20.345	27.824	1.00 77.66	AP1
ATOM	2802	CD1		15	48.132	21.237	26.711	1.00 77.79	AP1
ATOM	2803	CD2		15	46.455	20.348 22.123	25.613	1.00 77.88	AP1
MOTA	2804	C	LEU	15	45.773	19.869	26.158	1.00 77.57	AP1
ATOM	2805	0	LEU	15	46.049	19.859	29.899 31.110	1.00 79.19	AP1
ATOM	2806	N	GLY	16	45.048	18.922	29.306	1.00 79.28	API
ATOM	2807	CA	GLY	16	44.559	17.789	30.071	1.00 80.67	AP1
ATOM	2808	C	GLY	16	45.767	17.061	30.637	1.00 82.85 1.00 84.35	AP1
ATOM	2809	0	GLY	16	45.945	16.974	31.855	1.00 84.35 1.00 84.11	AP1
ATOM	2810	И	VAL	17	46.607	16.578	29.721	1.00 85.77	AP1
ATOM	2811	CA	VAL	17	47.844	15.839	30.001	1.00 87.22	AP1 AP1
ATOM	2812	CB	VAL	17	49.070	16.474	29.301	1.00 87.11	AP1
ATOM	2813		VAL	17	48.710	16.869	27.893	1.00 87.54	AP1
ATOM	2814		VAL	17	49.584	17.663	30.103	1.00 87.15	AP1
ATOM	2815	C	VAL	17	48.289	15.579	31.429	1.00 88.17	API
ATOM	2816	0	VAL	17	48.000	16.321	32.373	1.00 88.26	AP1
ATOM ATOM	2817	N	ASP	18	49.056	14.505	31.537	1.00 89.54	AP1
ATOM	2818 2819	CA	ASP	18	49.619	14.041	32.787	1.00 90.63	AP1
ATOM	2820	CB	ASP	18	49.655	12.509	32.759	1.00 91.40	AP1
ATOM	2821		ASP ASP	18	48.388	11.910	32.118	1.00 92.34	AP1
ATOM	2822		ASP	18	47.900	10.854	32.597	1.00 92.79	AP1
ATOM	2823	C	ASP	18	47.881	12.497	31.128	1.00 92.45	AP1
ATOM	2824	Ö	ASP	18 18	51.017	14.660	32.913	1.00 90.91	AP1
ATOM	2825	N	GLU	19	51.150	15.889	32.892	1.00 91.13	AP1
ATOM	2826	`CA	GLU	19	52.053 53.415	13.839	33.037	1.00 90.94	AP1
MOTA	2827	СВ	GLU	19	53.824	14.359 14.457	33.152	1.00 91.05	AP1
ATOM	2828	CG	GLU	19	54.855	15.536	34.628 34.961	1.00 91.09	AP1
ATOM	2829	œ	GLU	19	56.226	15.279	34.357	1.00 91.09 1.00 91.30	AP1
ATOM	2830		GLU	19	56.573	14.093	34.357	1.00 91.30	AP1
ATOM	2831		GLU	19	56.966	16.263	34.117	1.00 91.19	AP1
ATOM	2832	C·	GLU	19	54.284	13.352	32.409	1.00 91.17	AP1
MOTA	2833	0	GLU	19	55.365	13.670	31.906	1.00 91.03	AP1 AP1
MOTA	2834	N	ALA	20	53.787	12.122	32.352	1.00 91.10	AP1
ATOM	2835	CA	ALA	20	54.470	11.056	31.650	1.00 90.83	AP1
ATOM	2836	CB	ALA	20	54.346	9.742	32.422	1.00 90.97	AP1
ATOM	2837	C	ALA	20	53.745	10.975	30.319	1.00 90.53	AP1
ATOM	2838	0	ALA	20	53.250	9.921	29.921	1.00 90.54	AP1
ATOM	2839	N	ASP	21	53.673	12.120	29.649	1.00 90.01	AP1
ATOM	2840		ASP	21	53.011	12.240	28.356	1.00 89.51	AP1
ATOM	2841	CB	ASP	21	51.573	12.703	28.540	1.00 90.00	AP1
ATOM	2842	CG	ASP	21	50.671	11.607	29.018	1.00 90.37	AP1

ATOM	2843	OD1	-	21	51.172	10.479	29.200	1.00 90.49	AP1
ATOM	2844	OD2	ASP	21	49.463	11.878	29.201	1.00 90.73	AP1
ATOM	2845	C	ÀSP	21	53.742	13.265	27.512	1.00 88.90	AP1
ATOM	2846	0	ASP	21	53.788	13.161	26.288	1.00 88.82	AP1
ATOM	2847	И	VAL	22	54.287	14.273	28.186	1.00 88.02	AP1
ATOM	2848	CA	VAL	22	55.034	15.336	27.534	1.00 86.78	API
ATOM	2849	CB	VAL	22	55.323	16.508	28.529	1.00 87.06	AP1
ATOM	2850	CG1	VAL	22	56.038	17.662	27.822	1.00 86.97	AP1
ATOM	2851	CG2	VAL	22	54.014	16.997	29.147	1.00 87.18	API
ATOM	2852	C	VAL	22	56.348	14.744	27.032	1.00 85.76	AP1
ATOM	2853	0	VAL	22	57.414	14.993	27.596	1.00 85.65	AP1
ATOM	2854	N	LYS	23	56.253	13.930	25.985	1.00 84.59	AP1
ATOM	2855	CA	LYS	23	57.427	13.314	25.382	1.00 83.57	AP1
ATOM	2856	CB	LYS	23	57.121	11.861	24.978	1.00 83.52	AP1
ATOM	2857	C	LYS	23	57.719	14.171	24.154	1.00 82.69	AP1
ATOM	2858	0	LYS	23	56.838	14.353	23.317	1.00 82.89	AP1
ATOM	2859	N	LEU	24	58.943	14.691	24.056	1.00 81.40	AP1
ATOM	2860	CA	LEU	24	59.356	15.573	22.955	1.00 80.08	AP1
ATOM	2861	CB	LEU	24	60.872	15.489	22.737	1.00 79.75	AP1
ATOM	2862	CG	LEU	24	61.731	16.258	23.739	1.00 79.50	AP1
ATOM	2863	CD1		24	61.624	15.608	25.106	1.00 79.62	API
ATOM	2864	CD2		24	63.163	16.267	23.275	1.00 79.59	AP1
ATOM	2865	C	LEU	24	58.655	15.423	21.610	1.00 79.43	AP1
ATOM	2866	ō	LEU	24	58.428	16.416	20.920	1.00 79.17	AP1
ATOM	2867	N	GLU	25	58.306	14.198	21.235	1.00 78.68	AP1
ATOM	2868	CA	GLU	25 ·	57.650	13.981	19.952	1.00 78.37	AP1
ATOM	2869	CB	GLU	25	57.965	12.579	19.408	1.00 78.68	API API
ATOM	2870	CG	GLU	25	59.443	12.271			
ATOM	2871	CD	GLU	25	59.891	11.221	19.291 20.293	1.00 79.23 1.00 79.42	AP1
ATOM	2872	OE1	GLU	25	59.178	11.021			AP1
ATOM	2873	OE2	GLU	25	60.956	10.606	21.303 20.072	1.00 79.38 1.00 79.41	AP1
ATOM	2874	C	GLU	25					AP1
ATOM	2875	0	GLU	25 25	56.138 55.499	14.163	19.977	1.00 77.58	AP1
ATOM	2876		ALA			14.132	18.931	1.00 77.72	AP1
	2877	N CA	ALA	26	55.566	14.345	21.161	1.00 76.67	AP1
ATOM ATOM	2878	CB	ALA	26	54.123	14.513	21.286	1.00 75.78	AP1
				26	53.695	14.309	22.740	1.00 75.80	AP1
ATOM	2879	C	ALA	26	53.625	15.869	20.790	1.00 75.27	AP1
ATOM		. 0	ALA	26	54.006	16.920	21.328	1.00 75.04	AP1
ATOM	2881	N	SER	27	52.783	15.839	19.755	1.00 74.60	AP1
ATOM	2882	CA	SER	27	52.188	17.064	19.214	1.00 73.92	AP1
ATOM	2883	CB	SER	27	51.502	16.804	17.874	1.00 73.95	AP1
ATOM	2884	OG	SER	27	50.754	17.940	17.470	1.00 73.19	AP1
ATOM	2885	C	SER	27	51.141	17.561	20.205	1.00 73.32	AP1
ATOM	2886	0	SER	27	50.448	16.765	20.839	1.00 73.44	AP1
ATOM	2887	N	PHE	28	51.020	18.874	20.333	1.00 72.76	AP1
ATOM	2888	CA	PHE	28	50.057	19.439	21.264	1.00 72.39	AP1
MOTA	2889	CB	PHB	28	50.196	20.969	21.345	1.00 71.67	AP1
ATOM	2890	CG	PHE	28	51.538	21.431	21.825	1.00 70.96	AP1
ATOM	2891		PHE	28	51.948	21.175	23.131	1.00 70.16	AP1
MOTA	2892		PHE	28	52.407	22.105	20.962	1.00 70.39	AP1
ATOM	2893		PHE	28	53.207	21.579	23.571	1.00 69.79	API
MOTA	2894		PHE	28	53.668	22.515	21.393	1.00 69.61	AP1
ATOM	2895	CZ	PHE	28	54.068	22.251	22.697	1.00 69.78	AP1
ATOM	2896	C	PHE	28	48.635	19.090	20.870	1.00 72.17	AP1
ATOM	2897	0	PHE	28	47.913	18.445	21.628	1.00 71.91	AP1
ATOM	2898	N	LYS	29	48.239	19.499	19.675	1.00 72.50	AP1
ATOM	2899	CA	LYS	29	46.877	19.262	19.244	1.00 73.27	AP1

ATOM	2900	CB	LYS	29	46.622	19.945	17.898	1 00 55 46	
MOTA	2901	CG.	LYS	29	47.348	21.272		1.00 73.40	AP1
ATOM	2902	CD	LYS	29	46.788	22.164	16.669	1.00 73.52 1.00 73.98	AP1
ATOM	2903	CE	LYS	29	45.573	22.953	17.146	1.00 74.17	AP1
MOTA	2904	NZ	LYS	29	45.197	24.052	16.207	1.00 73.83	AP1
ATOM	2905	C	LYS	29	46.551	17.782	19.170	1.00 73.71	AP1
ATOM	2906	0	LYS	29	45.597	17.329	19.805	1.00 73.88	AP1 AP1
ATOM	2907	N	GLU	30	47.368	17.023	18.446	1.00 74.16	AP1
ATOM	2908	CA	GLU	30	47.126	15.590	18.271	1.00 74.65	API
MOTA MOTA	2909	CB	GLU	30	48.023	15.049	17.170	1.00 75.07	AP1
MOTA	2910 2911	CG	GLU	30	47.947	15.852	15.929	1.00 76.86	AP1
ATOM	2912	CD	GLU GLU	30	48.057	14.977	14.718	1.00 78.78	AP1
ATOM	2913	OE2		30	49.056	14.212	14.642	1.00 79.54	AP1
ATOM	2914	C	GLU	30	47.147	15.046	13.847	1.00 79.33	AP1
ATOM	2915	Ö	GLU	30 30	47.257	14.667	19:484	1.00 74.38	AP1
ATOM	2916	N	ASP	31	46.340	13.875	19.775	1.00 74.75	AP1
ATOM	2917	CA	ASP	31	48.381	14.769	20.192	1.00 73.09	AP1
ATOM	2918	СВ	ASP	31	48.636 50.132	13.897	21.328	1.00 71.86	AP1
ATOM	2919	CG	ASP	31	50.132	13.566	21.384	1.00 72.88	AP1
ATOM	2920	OD1		31	50.012	13.051	20.069	1.00 73.78	API
ATOM	2921		ASP	31	51.695	12.137	19.501	1.00 74.25	API
MOTA	2922	C	ASP	31	48.184	13.561 14.360	19.601	1.00 75.05	AP1
MOTA	2923	0	ASP	31	47.738	13.543	22.706	1.00 70.61	AP1
ATOM	2924	N	LEU	32	48.286	15.659	23.527 22.970	1.00 70.48	AP1
MOTA	2925	CA	LEU	32	47.934	16.158	24.296	1.00 68.61	AP1
MOTA	2926	CB	LEU	32	48.990	17.177	24.745	1.00 66.10 1.00 65.45	API
MOTA	2927	CG	LEU	32	50.426	16.633	24.584	1.00 64.39	AP1
MOTA	2928		LEU	32	51.434	17.693	24.928	1.00 64.02	AP1
MOTA	2929	CD2	LEU	32	50.618	15.417	25.477	1.00 63.67	AP1
MOTA	2930	C	LEU	32	46.542	16.731	24.419	1.00 64.48	AP1 AP1
ATOM	2931	0	LEU	32	46.238	17.395	25.403	1.00 65.05	API
ATOM	2932	N	GLY	23	45.704	16.464	23.422	1.00 62.24	API
ATOM	2933	CA	GLY	33	44.326	16.944	23.434	1.00 59.99	AP1
ATOM	2934	C	GLY	33	44.083	18.452	23.397	1.00 58.02	AP1
ATOM	2935	0	GLY	33	43.140	18.960	24.018	1.00 57.75	API
ATOM	2936	И	ALA	3,4	44.904	19.172	22.639	1.00 55.70	AP1
MOTA	2937	CA	ALA	3'4	44.774	20.612	22.568	1.00 53.12	AP1
MOTA MOTA	2938	СВ	ALA	34	46.160	21.243	22.618	1.00 51.50	API
MOTA	2939 2940	C	ALA	34	43.996	21.131	21.357	1.00 51.67	AP1
ATOM	2941	и	ALA	34	44.030	20.555	20.265	1.00 52.46	AP1
ATOM	2942	CA	asp Asp	35	43.254	22.203	21.577	1.00 49.18	.API
ATOM	2943	CB	ASP	35	42.542	22.835	20.495	1.00 47.71	AP1
ATOM	2944	ca	ASP	35 35	41.047		20.817	1.00 47.47	APL
ATOM	2945		ASP	35 35	40.800	23.937	22.053	1.00 48.06	API
ATOM	2946	OD2	ASP	35 35	41.772 39.605	24.521	22.632	1.00 47.16	AP1
ATOM	2947	C	ASP	35 35	43.241	24.042	22.435	1.00 47.60	AP1
MOTA	2948	ō	ASP	35	44.248	24.178 24.448	20.327	1.00 46.40	AP1
MOTA	2949	CA	PAN	36	43.266	26.327	21.002	1.00 45.96	AP1
MOTA	2950	N	PAN	36	42.705	25.005	19.165	1.00 43.36 1.00 44.57	AP1
MOTA	2951	C	PAN	36	43.389	27.308	19.437 20.387	1.00 44.57	API
MOTA	2952	0	PAN	36	44.435	27.308	20.563	1.00 39.31	AP1 AP1
MOTA	2953	05	PAN	36	43.295	28.035	17.578	1.00 47.40	AP1
ATOM	2954	P6	PAN	36	44.014	27.865	16.147	1.00 49.84	AP1
MOTA	2955	07	PAN	.36	43.369	29.013	15.282	1.00 47.80	API
MOTA	2956	08	PAN	36	43.594	26.426	15.540	1.00 47.32	API

MOTA	2957	09	PAN	36	45.529	28.004	16.288	1.00 48.61	
ATOM	2958		PAN	36	42.468	26.996	18.055	1.00 43.60	AP1
ATOM	2959	N	LEU	37	42.317	27.456	21.167	1.00 38.73	AP1
ATOM	2960	CA	LEU	37	42.342	28.307	22.361	1.00 38.63	AP1
ATOM	2961	CB	LEU	37	40.970	28.384	23.033	1.00 38.45	AP1
ATOM	2962	CG	LEU	37	40.084	29.491	22.490	1.00 39.46	AP1
ATOM	2963		LEU	37	38.726	29.397	23.139	1.00 40.89	API API
ATOM	2964		LEU	37	40.730	30.853	22.756	1.00 39.88	AP1
ATOM ATOM	2965	C	LEU	37	43.362	27.750	23.371	1.00 38.10	AP1
ATOM	2966	0	LEU	37	44.001	28.511	24.055	1.00 37.69	AP1
ATOM	2967 2968	N CA	ASP	38	43.508	26.424	23.440	1.00 37.30	AP1
ATOM	2969	CB	ASP ASP	38	44.480	25.846	24.318	1.00 37.41	AP1
ATOM	2970	CG	ASP	38	44.312	24.319	24.400	1.00 39.77	AP1
ATOM	2971		ASP	38 38	43.138	23.905	25.321	1.00 43.20	AP1
ATOM	2972		ASP	38	42.294	23.072	24.867	1.00 44.70	AP1
ATOM	2973	C	ASP	38	43.061	24.418	26.492	1.00 44.13	AP1
ATOM	2974	ō	ASP	38	45.895 46.726	26.193	<del>-</del>	1.00 36.29	AP1
ATOM	2975	И	VAL	39	46.185	26.520 26.160	24.719	1.00 35.72	AP1
ATOM	2976	CA	VAL	39	47.551	26.435	22.578	1.00 34.94	AP1
ATOM	2977	CB	VAL	39	47.891	25.854	22.162 20.691	1.00 33.47	AP1
MOTA	2978	CG1	VAL	39	46.700	25.967	19.759	1.00 33.86	AP1
ATOM	2979	CG2	VAL	39	49.064	26.630	20.071	1.00 33.20 1.00 34.16	AP1
ATOM	2980	C	VAL	39	47.880	27.918	22.250	1.00 34.16	AP1
ATOM	2981	0	VAL	39	49.011	28.262	22.562	1.00 33.32	AP1
ATOM	2982	N	VAL	40	46.934	28.826	22.015	1.00 33.82	AP1 AP1
ATOM	2983	CA	VAL	40	47.407	30.174	22.138	1.00 36.01	AP1
ATOM	2984	СВ	VAL	40	46.499	31.306	21.493	1.00 36.85	AP1
ATOM	2985		VAL	40	45.532	30.732	20.402	1.00 37.16	AP1
ATOM ATOM	2986		VAL	40	45.841	32.142	22.569	1.00 37.08	API
ATOM	2987 2988	C	VAL	40	47.660	30.465	23.597	1.00 36.87	AP1
ATOM	2989	о И	VAL	40	48.564	31.235	23.899	1.00 36.77	AP1
ATOM	2990	CA	GLU	41	46.904	29.854	24.505	1.00 36.94	AP1
ATOM	2991	CB	GLU	41	47.171	30.150	25.886	1.00 38.60	AP1
ATOM	2992	CG	GLU	41 41	46.139	29.525	26.818	1.00 39.00	AP1
ATOM	2993	æ	GLU	41	46.536	29.747	28.282	1.00 40.88	AP1
ATOM	2994		GLU	41	45.374	30.037	29.249	1.00 41.76	AP1
ATOM	2995	OE2	GLU	41	44.188 45.683	29.696	28.971	1.00 40.79	AP1
ATOM	2996	c	GLU	41	48.580	30.631	30.315	1.00 42.76	AP1
MOTA	2997	0	GLU	41	49.363	29.659 30.383	26.229 26.838	1.00 38.97	AP1
ATOM	2998	N	LEU	42	48.861	28.430	25.796	1.00 38.23 1.00 39.97	API
ATOM	2999	CA	LEU	42	50.133	27.723	25.954	1.00 40.75	AP1
MOTA	3000	CB	LEU	42	50.101	26.447	25.109	1.00 41.63	· AP1 AP1
ATOM	3001	CG	LEU	42	50.783	25.184	25.623	1.00 43.50	API
ATOM	3002	CD1		42	50.961	25.237	27.132	1.00 44.32	API
ATOM	3003	CD2		42	49.923	23.986	25.254	1.00 44.23	AP1
ATOM	3004	C	LEU	42	51.248	28.618	25.448	1.00 41.88	AP1
ATOM	3005	0	LEU	42	52.310	28.774	26.107	1.00 41.87	AP1
ATOM ATOM	3006	N	VAL	43	51.019	29.192	24.271	1.00 41.61	AP1
ATOM	3007	CA	VAL	43	52.002	30.099	23.698	1.00 43.10	AP1
ATOM	3008 3009		VAL	43	51.573	30.626	22.280	1.00 41.95	AP1
ATOM	3010	CG1		43	52.461	31.773	21.849	1.00 42.05	AP1
ATOM	3010	CG2 C		43	51.683	29.525	21.272	1.00 41.68	AP1
ATOM	3011	0	VAL VAL	43	52.205	31.299	24.642	1.00 44.58	AP1
ATOM	3013		MET	43	53.334	31.710	24.885	1.06 44.40	AP1
<b></b>			· ici i	44	51.129	31.846	25.198	1.00 46.55	AP1

ATOM .	3014	CA	MET	44	51.271	33.002	26.081	1.00 48.50	AP1
ATOM	3015	CB	MET	44	49.903	33.596	26.411	1.00 50.62	API
ATOM	3016	CG	MET	44	49.036	33.830	25.191	1.00 53.31	API
ATOM	3017	SD	MET	44	48.010	35.308	25.274	1.00 56.48	AP1
ATOM	3018	CE	MET	44	49.023	36.381	24.091	1.00 56.10	AP1
ATOM	3019	C	MET	44	52.030	32.673	27.367	1.00 48.61	AP1
ATOM	3020	0	MET	44	52.746	33.505	27.895	1.00 47.98	AP1
ATOM	3021	N	GLU	45	51.862	31.456	27.850	1.00 49.57	AP1
ATOM	3022	CA	GLU	45	52.537	30.979	29.047	1.00 51.80	
ATOM	3023	CB	GLU	45	52.109	29.544	29.311	1.00 53.29	AP1
ATOM	3024	CG	GLU	45	51.852	29.175	30.731	1.00 56.51	AP1
ATOM	3025	CD	GLU	45	50.397	29.315	31.099	1.00 58.24	AP1
ATOM	3026	0E1	GLU	45	50.000	30.403	31.586	1.00 60.07	AP1
ATOM	3027	OE2	GLU	45	49.646	28.331	30.896	1.00 59.11	AP1
ATOM	3028	C	GLU	45	54.058	31.013	28.761	1.00 52.25	AP1
MOTA	3029	0	GLU	45	54.836	31.596	29.526	1.00 52.28	AP1
ATOM	3030	N	LEU	46	54.456	30.385	27.647	1.00 52.28	AP1
ATOM	3031	CA	LEU	46	55.846	30.334	27.202	1.00 52.07	AP1
ATOM	3032	CB	LEU	46	55.940	29.537	25.901	1.00 50.17	AP1
ATOM	3033	CG	LEU	46	55.566	28.059	26.106	1.00 49.48	AP1
ATOM	3034	CD1	LEU	46	55.363	27.370	24.784	1.00 47.80	AP1
ATOM	3035	CD2	LEU	46	56.621	27.370	26.902	1.00 47.80	AP1
ATOM	3036	С	LEU	46	56.453	31.735	27.029	1.00 47.39	API
ATOM	3037	0	LEU	46	57.541	31.975	27.531		AP1
MOTA	3038	N	GLU	47	55.760	32.656	26.344	1.00 53.30 1.00 54.28	AP1
MOTA	3039	CA	GLU	47	56.254	34.042	26.152		AP1
ATOM	3040	CB	GLU	47	55.254	34.859	25.313	1.00 55.41	AP1
ATOM	3041	CG	GLU	47	54.558	34.403		1.00 55.37	AP1
ATOM	3042	В	GLU	47	53.941	35.658	24.030 23.455	1.00 20.00	AP1
ATOM	3043	OE1	GLU	47	53.223	36.026		1.00 20.00	AP1
ATOM	3044	OE2	GLU	47	53.223	36.198	24.374	1.00 20.00	AP1
ATOM	3045	c	GLU	47	56.579	34.717	22.351	1.00 20.00	APL
ATOM	3046	o	GLU	47.	57.556	35.469	27.501	1.00 56.17	AP1
ATOM	3047	N	ASP	48	55.699	34.470	27.650	1.00 55.04	AP1
ATOM	3048	CA	ASP	48	55.841	35.008	28.460	1.00 57.41	AP1
ATOM	3049	СВ	ASP	48	54.522		29.798	1.00 58.55	AP1
ATOM	3050	CG	ASP	48		34.865	30.572	1.00 59.09	AP1
ATOM	3051	OD1	ASP	48	53.486	35.890	30.153	1.00 60.41	AP1
ATOM	3052		ASP		53.856	36.825	29.408	1.00 60.98	AP1
ATOM	3053	C	ASP	48 48	52.308	35.775	30.581	1.00 61.28	AP1
ATOM	3054	ō	ASP	48	56.959	34.278	30.523	1.00 58.58	AP1
ATOM	3055	N			57.880	34.911	31.005	1.00 58.57	AP1
ATOM	3056	CA	GLU	49 49	56.888	32.952	30.565	1.00 59.20	. AP1
ATOM	3057	CB	GLU		57.884	32.133	31.251	1.00 60.01	AP1
ATOM	3058	CG	GLU	49	57.414	30.677	31.237	1.00 60.67	AP1
ATOM	3059	CD	GLU	49	58.437	29.655	31.732	1.00 61.95	AP1
ATOM	3060	OE1		49	58.960	30.013	33.107	1.00 62.06	AP1
ATOM	3061	OE2		49	58.130	30.354	33.981	1.00 62.53	AP1
ATOM	3062			49	60.188	29.960	33.313	1.00 61.75	AP1
ATOM	3063	C	GLU	49	59.333	32.194	30.737	1.00 60.39	AP1
MOTA	3064	0	GLU	49	60.240	31.675	31.382	1.00 60.33	AP1
ATOM		N	PHE	50	59.566	32.832	29.597	1.00 60.48	AP1
	3065	CA	PHE	50	60.908	32.856	29.019	1.00 61.05	AP1
MOTA	3066	CB	PHE	50	61.071	31.784	27.935	1.00 59.10	AP1
ATOM	3067	CG	PHE	50	61.038	30.362	28.437	1.00 57.27	AP1
ATOM	3068	CD1		50	62.133	29.808	29.079	1.00 56.58	AP1
ATOM	3069	CD2		50	59.922	29.563	28.224	1.00 56.22	AP1
MOTA	3070	CE1	PHE	.50	62.110	28.478	29.496	1.00 56.30	AP1
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MOTA	3071	CE2	PHE	50	59.897	28.235	28.642	1.00 55.50	
MOTA	3072	CZ	PHE	50	60.992	27.693	29.276	1.00 55.77	AP1
ATOM	3073	C	PHE	50	61.159	34.167	28.353	1.00 53.77	AP1
MOTA	3074	0	PHE	50	62.021	34.265	27.484	1.00 63.54	AP1
ATOM	3075	N	ASP	51	60.379	35.173	28.711	1.00 64.37	AP1
ATOM	3076	CA	ASP	51	60.579	36.477	28.118	1.00 66.05	AP1 AP1
ATOM	3077	CB	ASP	51	61.683	37.213	28.893	1.00 66.72	API
ATOM	3078	CG	ASP	51	62.056	38.540	28.265	1.00 67.40	AP1
ATOM	3079		ASP	51	61.179	39.425	28.226	1.00 68.03	API
ATOM	3080	OD2		51	63.215	38.699	27.808	1.00 67.55	API
ATOM ATOM	3081	C	ASP	51'	60.932	36.430	26.618	1.00 66.81	AP1
ATOM	3082 3083	0	ASP	51	62.073	36.731	26.236	1.00 67.47	AP1
ATOM	3084	N	MET	52 52	59.968	36.028	25.780	1.00 67.15	AP1
MOTA	3085	CA CB	MET MET	52 53	60.145	36.013	24.317	1.00 66.82	AP1
ATOM	3086	CG	MET	52 53	60.497	34.615	23.776	1.00 68.05	AP1
ATOM	3087	SD	MET	52 53	60.181	33.433	24.675	1.00 69.70	AP1
ATOM	3088	CE	MET	52 52	60.796	31.866	23.923	1.00 72.25	AP1
ATOM	3089	C	MET	52 52	62.181	31.386	25.057	1.00 71.72	AP1
ATOM	3090	ō	MET	52 52	58.877	36.557	23.637	1.00 65.95	AP1
ATOM	3091	N	GLU	53	57.921	36.956	24.315	1.00 65.80	AP1
ATOM	3092	CA	GLU	53 53	58.861	36.580	22.310	1.00 64.45	AP1
ATOM	3093	СВ	GLU	53	57.714	37.128	21.607	1.00 63.42	AP1
ATOM	3094	CG	GLU	. 53	58.201 57.177	38.195	20.621	1.00 64.63	API
ATOM	3095	CD	GLU	53	57.823	39.291	20.326	1.00 66.71	AP1
ATOM	3096		GLU	5 <b>3</b>	58.632	40.623	19.911	1.00 67.92	AP1
ATOM	3097	OE2	GLU	53	57.517	40.625	18.944	1.00 68.49	AP1
ATOM	3098	C	GLU	53	57.754	35.920	20.559 20.646	1.00 68.15	AP1
ATOM	3099	0	GLU	53	58.839	35.510	20.228	1.00 61.78 1.00 62.18	AP1
MOTA	3100	N	ILE	54	56.598	35.363	20.228	1.00 52.18	AP1
ATOM	3101	CA	ILE	54	56.484	34.192	19.385		AP1
ATOM	3102	CB	ILE	54	56.061	32.975	20.277	1.00 55.84	AP1 AP1
ATOM	3103	CG2	ILE	54	55.752	31.773	19.377	1.00 55.47	AP1
ATOM	3104		ILE	54	57.196	32.570	21.220	1.00 56.28	API
ATOM	3105		ILE	54	56.839	31.459	22.208	1.00 56.74	API
ATOM	3106	C	ILE	54	55.225	34.629	18.600	1.00 55.56	AP1
ATOM	3107	0	ILE	54	54.095	34.632	19.122	1.00 55.94	AP1
ATOM	3108	N	SER	55	55.424	34.947	17.328	1.00 53.24	AP1
ATOM	3109	CA	SER	55	54.345	35.363	16.445	1.00 51.67	AP1
ATOM	3110	CB	SER	55	54.957	35.881	15.149	1.00 51.59	AP1
MOTA	3111	OG	SER	55	55.754	34.843	14.601	1.00 50.98	AP1
ATOM	3112	C	SER	55	53.396	34.188	16.111	1.00 50.89	· AP1
MOTA MOTA	3113	0	SER	55	53.686	33.025	16.427	1.00 50.20	AP1
ATOM	3114 3115	N	ASP	56	52.263	34.505	15.477	1.00 50.52	AP1
ATOM	3115	CA	ASP	56	51.301	33.486	15.055	1.00 50.73	AP1
ATOM	3117	CB	ASP	56	50.115	34.112	14.282	1.00 51.39	AP1
ATOM	3117	CG	ASP	56	49.076	34.796	15.193	1.00 52.27	AP1
ATOM	3119	ODI		56	48.939	34.396	16.388	1.00 53.22	AP1
ATOM	3120	OD2 C		56	48.379	35.718	14.699	1.00 50.84	AP1
ATOM	3121	0	ASP	56	52.062	32.536	14.109	1.00 50.93	AP1
ATOM	3122	и	ASP GLU	56 57	51.741	31.347	13.989	1.00 49.65	AP1
ATOM	3123	CA	GLU	57 57	53.073	33.080	13.430	1.00 51.57	AP1
ATOM	3124	СВ	GLU	57 57	53.881	32.285	12.510	1.00 52.66	AP1
ATOM	3125	CG	GLU	5 <i>7</i> 57	54.800	33.183	11.681	1.00 53.96	AP1
ATOM	3126	CD	GLU	57 57	55.384	32.498	10.470	1.00 56.75	AP1
ATOM	3127	OE1		57	56.048	33.482	9.499	1.00 58.76	AP1
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MOTA	3128	OE2	GLU	57	55.365	33.881	8.511	1.00 59.50	AP1
ATOM	3129	C	GLU	57	54.702	31.276	13.309	1.00 52.17	AP1
MOTA	3130	0	GLU	57	54.669	30.082	13.030	1.00 50.84	AP1
MOTA	3131	И	ASP	58	55.404	31.757	14.325	1.00 52.81	AP1
MOTA	3132	CA	ASP	58	56.208	30.863	15.154	1.00 54.03	AP1
MOTA	3133	CB	ASP	58	57.101	31.661	16.094	1.00 53.98	AP1
ATOM	3134	CG	ASP	58	58.039	32.606	15.349	1.00 55.50	AP1
MOTA	3135	OD1		58	58.353	32.363	14.146	1.00 54.46	AP1
ATOM	3136		ASP	58	58.468	33.599	15.993	1.00 57.16	AP1
MOTA	3137	C	ASP	58	55.328	29.901	15.960	1.00 54.50	AP1
ATOM	3138	0	ASP	58	55.769	28.803	16.345	1.00 54.65	AP1
ATOM	3139 3140	N	ALA ALA	59 50	54.083	30.294	16.215	1.00 54.12	AP1
ATOM ATOM	3140	CA CB	ALA	59 59	53.206 51.865	29.405 30.091	16.957 17.249	1.00 54.32	AP1
ATOM	3142	C	ALA	59	52.997	28.171	16.096	1.00 54.13 1.00 54.49	AP1
ATOM	3143	0	ALA	59	53.039	27.045	16.571	1.00 53.95	AP1 AP1
ATOM	3144	И	GLU	60	52.803	28.376	14.805	1.00 55.25	API API
ATOM	3145	CA	GLU	60	52.573	27.223	13.962	1.00 56.49	AP1
ATOM	3146	CB	GLU	60	52.040	27.639	12.596	1.00 56.75	AP1
ATOM	3147	CG	GLU	60	51.899	26.484	11.628	1.00 58.07	AP1
ATOM	3148	CD	GLU	60	51.013	26.849	10.463	1.00 59.05	API
ATOM	3149	OE1		60	49.784	26.570	10.543	1.00 60.39	AP1
ATOM	3150	OE2		60	51.540	27.436	9.490	1.00 58.55	AP1
ATOM	3151	C	GLU	60	53.820	26.367	13.820	1.00 56.93	API
ATOM	3152	ō	GLU	60	53.703	25.155	13.593	1.00 57.48	AP1
ATOM	3153	N	LYS	61	55.014	26.947	13.965	1.00 56.79	AP1
ATOM	3154	CA	LYS	61	56.174	26.073	13.861	1.00 57.27	AP1
ATOM	3155	CB	LYS	61	57.519	26.797	13.840	1.00 57.94	AP1
ATOM	3156	CG	LYS	61	58.612	25.719	13.702	1.00 59.35	AP1
ATOM	3157	CD	LYS	61	60,038	26.222	13.793	1.00 61.65	AP1
ATOM	3158	CE	LYS	61	61:023	25.049	13.679	1.00 61.95	AP1
ATOM	3159	NZ	LYS	61	62.451	25.504	13.695	1.00 62.10	AP1
ATOM	3160	C	LYS	61	56.246	25.084	15.005	1.00 56.70	AP1
ATOM	3161	0	LYS	61	56.534	23.906	14.792	1.00 56.75	AP1
ATOM	3162	N	ILE	62	55.985	25.552	16.224	1.00 56.23	AP1
MOTA	3163	CA	ILE	62	56.084	24.651	17.355	1.00 55.58	AP1
ATOM	3164	CB	ILE	62	56.520	25.434	18.608	1.00 55.21	AP1
MOTA	3165	CG2	ILE	62	57.819	26.184	18.284	1.00 54.70	AP1
MOTA	3166	CG1	ILE	62	55.491	26.474	19.002	1.00 54.99	AP1
ATOM	3167	CD1		62	55.913	27.242	20.214	1.00 54.20	AP1
ATOM	3168	C	ILE	62	54.887	23.723	17.593	1.00 55.31	API
MOTA	3169	0	ILE	62	54.109	23.854	18.542	1.00 55.02	. AP1
ATOM	3170	N	ALA	63	54.799	22.741	16.704	1.00 55.03	API
MOTA	3171	CA	ALA	63	53.758	21.722	16.726	1.00 54.72	AP1
ATOM	3172	CB	ALA	63	53.658	21.063	15.349	1.00 54.68	AP1
MOTA	3173	C	ALA	63	53.950	20.640	17.790	1.00 54.19	AP1
MOTA	3174	0	ALA	63	52.979	20.028	18.223	1.00 54.15 1.00 53.96	AP1 AP1
MOTA	3175	N	THR	64	55.192	20.381	18.195	1.00 53.49	AP1
ATOM	3176	CA	THR	64	55.457	19.358	19.222		AP1
ATOM	3177	CB	THR	64	56.341	18.195	18.695	1.00 52.92 1.00 51.65	AP1
ATOM	3178		THR	64	57.656	18.696	18.412	1.00 51.65	AP1
ATOM	3179 3180	CG2		64	55.731	17.563		1.00 53.03	AP1
ATOM		C	THR	64	56.194	19.899		1.00 52.73	AP1
MOTA	3181	O N	THR	6 <b>4</b>	56.707	21.012		1.00 53.66	AP1
ATOM	3182	N	VAL	65 65	56.262	19.067			API
MOTA	3183	CA	VAL	65 65	56.961				AP1
ATOM	3184	CB	VAL	65	56.90 <b>7</b>	18.244	23.702	1.00 34.27	WET

MOTA	3185		VAL	65	57.520	18.646	25.030	1.00 54.06	AP1
ATOM	3186		VAL	65	55.465	17.803	23.892	1.00 54.41	AP1
ATOM	3187	C	VAL	65	58.439	19.770	22.380	1.00 53.79	AP1
MOTA	3188	0	VAL	65	58.992	20.727	22.922	1.00 53.70	AP1
MOTA	3189	N	GLY	66	59.058	18.982	21.497	1.00 53.49	AP1
MOTA	3190	CA	GLY '	66	60.448	19.199	21.126	1.00 52.65	AP1
MOTA	3191	C	GLY	66	60.633	20.472	20.339	1.00 52.63	API
ATOM	3192	0	GLY	66	61.672	21.145	20.420	1.00 51.80	AP1
ATOM	3193	N	ASP	67	59.607	20.815	19.575	1.00 53.18	AP1
ATOM	3194	CA	ASP	67		. 22.031	18.778	1.00 53.33	AP1
ATOM	3195	CB	ASP	67	58.347	22.085	17.939	1.00 54.43	AP1
ATOM	3196	CG	ASP	67	58.291	20.970	16.900	1.00 55.53	AP1
ATOM	3197	OD1	ASP	67	57.211	20.358	16.671	1.00 55.75	AP1
ATOM	3198			67	59.353	20.719	16.294	1.00 56.16	
ATOM	3199	C	ASP	67	59.745	23.248	19.715	1.00 53.22	AP1
MOTA	3200	0	ASP	67	60.588	24.156	19.528	1.00 53.22	AP1
ATOM	3201	N	ALA	68	58.905	23.270	20.741		API
ATOM	3202	CA	ALA	68	58.971	24.384	21.666	1.00 53.13	AP1
ATOM	3203	CB	ALA	68	57.936	24.246		1.00 53.88	API
ATOM	3204	C	ALA	68	60.367	24.425	22.742	1.00 52.72	AP1
ATOM	3205	ō	ALA	68			22.280	1.00 53.95	API
ATOM	3206	N	VAL	69	61.017	25.454	22.264	1.00 54.56	API
ATOM	3207	CA	VAL	_	60.833	23.309	22.807	1.00 54.46	AP1
ATOM	3208	CB	VAL	69 60	62.161	23.283	23.417	1.00 55.62	AP1
ATOM	3209		VAL	69 60	62.548	21.836	23.806	1.00 55.19	AP1
ATOM	3210		VAL	69 60	63.998	21.787	24.255	1.00 56.16	AP1
ATOM		C		69 60	61.638	21.338	24.923	1.00 54.08	AP1
ATOM	3211		VAL	69	63.223	23.905	22.491	1.00 56.45	API
	3212	0	VAL	69	63.865	24.895	22.849	1.00 55.15	AP1
ATOM	3213	N	ASN	70	63.387	23.335	21.298	1.00 58.25	AP1
ATOM	3214	CA	ASN	70	64.356	23.856	20.326	1.00 60.36	AP1
MOTA	3215	CB	ASN	70	64.185	23.230	18.930	1.00 60.51	AP1
ATOM	3216	CG	ASN	70	64.407	21.739	18.914	1.00 60.64	AP1
ATOM	3217		ASN	70	65.442	21.254	19.343	1.00 61.77	AP1
ATOM	3218		ASN	70	63.432	21.003	18.404	1.00 60.71	AP1
ATOM	3219	C	ASN	70	64.174	25.345	20.137	1.00 61.62	AP1
MOTA	3220	0	ASN	70	65,157	26.080	20.052	1.00 61.81	AP1
MOTA	3221	N	TYR	71	62.915	25.776	20.037	1.00 63.25	AP1
MOTA	3222	CA	TYR	71	62.599	27.181	19.821	1.00 65.19	AP1
MOTA	3223	CB	TYR	71	61.097	27.371	19.585	1.00 65.08	AP1
MOTA	3224	CG	TYR	71	60.728	28.814	19.325	1.00 64.90	AP1
MOTA	3225	CD1	TYR	71	60.413	29.668	20.377	1.00 64.71	AP1
MOTA	3226	CEL	TYR	71	60.151	31.008	20.160	1.00 65.27	· AP1
MOTA	3227	CD2	TYR	71	60.769	29.342	18.034	1.00 64.62	AP1
ATOM	3228	CE2	TYR	71	60.508		17.800	1.00 64.75	AP1
MOTA	3229	CZ	TYR	71	60.197	31.517	18.866	1.00 65.04	AP1
MOTA	3230	OH	TYR	71	59.928	32.854	18.650	1.00 64.43	AP1
MOTA	3231	C	TYR	71	63.069	28.048	20.980	1.00 66.81	AP1
ATOM	3232	0	TYR	71	63.375	29.238	20.803	1.00 66.70	AP1
MOTA	3233	N	ILE	72	63.138	27.440	22.161	1.00 68.59	AP1
ATOM	3234	CA	ILE	72	63.609	28.126	23.354	1.00 70.76	AP1
ATOM .	3235	СВ	ILE	72	62.898	27.583	24.594	1.00 70.58	API
ATOM	3236		ILE	72	63.445	28.260	25.878	1.00 70.73	API
ATOM	3237		ILE	72	61.394	27.804	24.416	1.00 70.73	API
ATOM	3238		ILE	72	60.562	27.205	25.496	1.00 70.49	AP1
ATOM	3239	c	ILE	72					
MOTA	3240	0.	ILE	./2 72	65.130	27.925	23.466	1.00 72.57	AP1
ATOM	3241	N	GLN		65.684		. 24.533	1.00 73.27	AP1
ALOM	244T	7.4	GTW	.73	65.791	28.072	22.325	1.00 74.34	AP1

MOTA	3242	CA	GLN	73	67.235	27.953	22 214			
ATOM	3243	CB	GLN	73	67.636	26.483	22.214 22.085	1.00		AP1
ATOM	3244	CG	GLN	73	67.369	25.611	23.306	1.00		AP1
ATOM	3245	CD	GLN	73	67.842	24.174	23.306	1.00		AP1
ATOM	3246		GLN	73	68.958	23.944	22.606	1.00		API
ATOM	3247	NEZ	GLN	73	67.006	23.201	23.449	1.00		AP1
ATOM	3248	C	GLN	73	67.593	28.719	20.931	1.00	80.77	AP1
ATOM	3249	OTI	GLN	73	67.901	29.933	21.027	1.00		AP1
MOTA	3250	OT2	GLN	73	67.520	28.109	19.835	1.00	76.06	AP1
ATOM	3251	CB	ÀLA	1	6.645	63.605	34.695	1.00		AP1
ATOM	3252	C	ALA	1	6.820	61.130	34.410	1.00		AP2
MOTA	3253	0	ALA	1	7.722	60.410	34.845	1.00	06.49	AP2
MOJTA	3254	N	ALA	1	6.500	62.631	32.424			AP2
ATOM	3255	CA	ALA	1	7.130	62.486	33.774	1.00		AP2
MOTA	3256	N	ASP	2	5.531	60.806	34.476	1.00		AP2
ATOM	3257	CA	ASP	2	5.054	59.549	35.054	1.00 8		AP2
ATOM	3258	CB	ASP	2	3.540	59.631	35.306	1.00 8		AP2
ATOM	3259	CG	ASP	2	2.875	58.258	35.366	1.00 8		AP2
ATOM	3260		ASP	2	3.170	57.480	36.303	1.00 8		AP2
ATOM	3261	OD2	ASP	2	2.057	57.953	34.466	1.00 8		AP2
ATOM	3262	C	ASP	2	5.355	58.396	34.108	1.00 8		AP2
ATOM	3263	0	ASP	2	5.719	57.291	34.538	1.00 8		AP2
ATOM	3264	N	THR	3	5.199	58.662	32.815	1.00 8		AP2
ATOM	3265	CA	THR	3	5.455	57.639	31.824	1.00 8		AP2
ATOM	3266	CB	THR	3	5:146	58.144	30.366	1.00 8		AP2
ATOM	3267	0G1		3	6.165	59.047	29.927	1.00 8		AP2
MOTA	3268	CG2	THR	3	3.779	58.857	30.315	1.00 8		AP2
MOTA	3269	C	THR	3	6.905	57.162	31.967	1.00 8		AP2
ATOM	3270	0	THR	3	7.174	55.971	31.831	1.00 8		AP2
ATOM	3271	N	LEU	4	7.827	58.073	32.275	1.00 8		AP2
ATOM	3272	CA	LEU	4	9.230	57.688	32.450	1.00 8		AP2
ATOM	3273	CB	LEU	4	10.132	58.918	32.629	1.00 8		AP2
ATOM	3274	CG	LEU	4	11.604	58.706	33.043	1.00 8		AP2
MOTA	3275		LEU	<b>4</b>	12.368	57.866	32.045	1.00 8		AP2
MOTA	3276		LEU	4	12.262	60.051	33.161	1.00 8		AP2
MOTA	3277	C	LEU	4	9.405	56.766	33.649	1.00 8		AP2
ATOM	3278	0	LEU	4	10.243	55.866	33.634	1.00 8		AP2
ATOM	3279	N	GLU	5	8.621	56.992	34.695	1.00 8		AP2
ATOM	3280	CA	GLU	5	8.711	56.149	35.875	1.00 8		AP2
ATOM	3281	CB	GLU	5	7.842	56.718	37.013	1.00 8		AP2 AP2
MOTA	3282	CG	GLU	5	8.638	57.408	38.133	1.00 8		AP2
MOTA	3283	CD	GLU	5	9.550	58.535	37.610	1.00 8		AP2
MOTA	3284		GLU	5	9.007	59.558	37.117	1.00 8		AP2
MOTA	3285		GLT	5	10.805	58.395	37.682	1.00 8		AP2
MOTA	3286	C	GLU	5	8.264	54.733	35.502	1.00 7		AP2
ATOM	3287	0	GLU	5	8.918	53.746	35.863	1.00 7		AP2
ATOM	3288	N	ARG	6	7.155	54.635	34.769	1.00 7		AP2
ATOM	3289	CA	ARG	6	6.658	53.331	34.355	1.00 7		AP2
ATOM	3290	CB	ARG	6	5.225	53.430	33.827	1.00 7		AP2
ATOM .	3291	CG	ARG	6	4.171	53.413	34.942	1.00 7		AP2
ATOM	3292	CD	ARG	6	2.764	53.134	34.408	1.00 7		AP2
ATOM	3293	NE	ARG	6	2.136	54.303	33.801	1.00 7		AP2
ATOM	3294	CZ	ARG	. 6	1.053	54.245	33.030	1.00 7		AP2
ATOM	3295	NH1		6	0.482	53.071	32.771	1.00 7		AP2
ATOM	3296	NH2		6	0.532	55.361	32.523	1.00 7		AP2
ATOM	3297	C	ARG	- 6	7.571	52.706	33.310	1.00 7		AP2
MOTA	3298	0	ARG	6	7.896	51.521	33.405	1.00 7		AP2
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ATOM	3299	N	VAL	7	7.995	53.493	32.324	1.00 75.18	AP2
ATOM	3300	CA	VAL	7	8.894	52.981	31.306	1.00 74.11	AP2
ATOM	3301	CB	VAL	7	9.345	54.067	30.323	1.00 73.72	AP2
ATOM ATOM	3302	CG1		7	10.514	53.549	29.513	1.00 73.33	AP2
ATOM	3303	CG2		7	8.216	54.462	29.404	1.00 72.85	AP2
ATOM	3304	C	VAL	7	10.149	52.453	31.966	1.00 74.07	AP2
ATOM	3305 3306	и 0	VAL	7	10.634	51.386	31.626	1.00 74.04	AP2
ATOM	3307	CA	THR	8	10.680	53.209	32.916	1.00 74.19	AP2
ATOM	3308	CB	THR	8 8	11.906	52.802	33.583	1.00 74.59	AP2
ATOM	3309	0G1		8	12.395	53.893	34.580	1.00 74.78	AP2
ATOM	3310	CG2	THR	8	12.916 13.493	55.016	33.852	1.00 74.74	AP2
ATOM	3311	c	THR	8	11.721	53.348 51.488	35.489	1.00 74.82	AP2
ATOM	3312	o	THR	8	12.585	50.603	34.315	1.00 74.86	AP2
ATOM	3313	N	LYS	. 9	10.590	51.368	34.259 35.001	1.00 74.74	AP2
MOTA	3314	CA	LYS	9	10.279	50.166	35.758	1.00 75.13	AP2
ATOM	3315	CB	LYS	9	8.920	50.345	36.462	1.00 75.62 1.00 76.59	AP2
ATOM	3316	CG	LYS	9	8.406	49.178	37.316	1.00 78.39	AP2
ATOM	3317	CD	LYS	9	6.994	49.508	37.828	1.00 78.26	AP2
ATOM	3318	CE	LYS	9	6.274	48.308	38.446	1.00 78.59	AP2 AP2
MOTA	3319	NZ	LYS	9	6.887	47.838	39.724	1.00 79.09	AP2
MOTA	3320	C	LYS	9	10.263	48.983	34.790	1.00 75.49	AP2
ATOM	3321	0	LYS	9	10.794	47.921	35.094	1.00 75.37	AP2
ATOM	3322	N	ILE	10	9.673	49.176	33.613	1.00 75.59	AP2
ATOM	3323	CA	ILE	10	9.609	48.111	32.607	1.00 75.37	AP2
ATOM	3324	СВ	ILE	10	8.897	48.569	31.322	1.00 74.85	AP2
MOTA	3325	CG2	ILE	10	8.826	47.408	30.363	1.00 75.13	AP2
ATOM	3326	CGI	ILE	10	7.499	49.103	31.621	1.00 74.65	AP2
ATOM ATOM	3327	CD1		10	6.486	48.042	31.950	1.00 74.86	AP2
ATOM	3328 3 <b>32</b> 9	0	ILE	10	11.024	47.697	32.203	1.00 75.44	AP2
ATOM	3330	И	ILE	10	11.367	46.515	32.216	1.00 74.81	AP2
ATOM	3331	CA	ILE	11	11.831	48.689	31.836	1.00 76.08	AP2
ATOM	3332	CB	ILE	11 11	13.208	48.459	31.408	1.00 77.08	AP2
ATOM	3333	CG2	ILE	11	13.918	49.787	31.105	1.00 76.69	AP2
ATOM	3334	CG1	ILE	11	15.360 13.187	49.522	30.722	1.00 76.30	AP2
ATOM	3335	CD1		11	13.167	50.514	29.974	1.00 76.78	AP2
ATOM	3336	c	ILE	11	14.039	51.819 47.696	29.527	1.00 76.66	AP2
ATOM	3337	o	ILE	11	14.696	46.706	32.431 32.102	1.00 78.04	AP2
MOTA	3338	N	VAL	12	14.009	48.172	33.672	1.00 77.63 1.00 79.25	AP2
ATOM	3339	CA	VAL	12	14.761	47.547	34.755	1.00 79.25 1.00 80.48	AP2 AP2
MOTA	3340	CB	VAL	12	14.604	48.343	36.088	1.00 80.56	AP2
ATOM	3341	CG1	VAL	12	15.410	47.676	37.191	1.00 80.75	· AP2
ATOM	3342	CG2	VAL	12	15.063	49.779	35.899	1.00 80.30	AP2
ATOM	3343	C	VAL	12	14.298	46.116	34.989	1.00 81.20	AP2
ATOM	3344	0	VAL	12	15.101	45.194	35.041	1.00 81.20	AP2
ATOM	3345	N	ASP	13	12.992	45.942	35.121	1.00 82.40	AP2
ATOM	3346	CA	ASP	13	12.402	44.634	35.375	1.00 83.84	AP2
ATOM	3347	СВ	ASP	13	10.901	44.804	35.657	1.00 84.55	AP2
MOTA	3348	CG	ASP	13	10.618	45.767	36.829	1.00 85.50	AP2
ATOM	3349	OD1		13	11.513	46.577	37.182	1.00 85.54	AP2
ATOM	3350	OD2		13	9.491	45.726	37.386	1.00 85.79	AP2
ATOM	3351	C	ASP	13	12.627	43.600	34.256	1.00 84.60	AP2
ATOM	3352	0	ASP	13	12.466	42.395	34.485	1.00 84.91	AP2
MOTA MOTA	3353	N	ARG	14	12.993		33.056	1.00 85.13	AP2
ATOM	3354	CA	ARG	14	13.252	43.158	31.915	1.00 85.53	AP2
ALUM	3355	CB	ARG	14	12.667	43.725	30.602	1.00 85.39	AP2

MOTA	3356	CG	ARG	14	11.133	43.788	30.506	1.00 85.43	202
ATOM	3357	CD	ARG	14	10.493	42.407	30.616	1.00 85.43	AP2 AP2
ATOM	3358	NE	ARG	14	11.253	41.397	29.883	1.00 85.32	AP2
ATOM	3359	CZ	ARG	14	10.950	40.102	29.862	1.00 85.25	
ATOM	3360	NH1	ARG	14	9.894	39.663	30.536	1.00 85.24	AP2
ATOM	3361	NH2	ARG	14	11.707	39.246	29.182	1.00 84.65	AP2
ATOM	3362	C	ARG	14	14.760	42.939	31.717	1.00 85.76	AP2
ATOM	3363	0	ARG	14	15.315	41.907	32.112	1.00 85.85	AP2
ATOM	3364	N	LEU	15	15.405	43.929	31.106	1.00 85.73	AP2
ATOM	3365	CA	LEU	15	16.828	43.896	30.831	1.00 86.03	AP2
ATOM	3366	CB	LEU	15	17.192	45.082	29.947	1.00 85.82	AP2
ATOM	3367	CG	LEU	15	16.136	45.523	28.925	1.00 85.68	AP2
ATOM	3368	CD1	LEU	15	16.630	46.758	28.206	1.00 85.55	AP2
ATOM	3369	CD2	LEU	15	15.843	44.414	27.933	1.00 85.29	AP2
ATOM	3370	C	LEU	15	17.686	43.935	32.096	1.00 86.63	AP2
ATOM	3371	0	LEU	15	18.914	43.909	32.005	1.00 86.53	AP2
ATOM	3372	N	GLY	16	17.045	44.012	33.264	1.00 87.36	AP2
ATOM	3373	CA	GLY	16	17.775	44.064	34.527	1.00 88.66	AP2
ATOM	3374	C	GLY	16	19.053	44.883	34.456	1.00 89.59	AP2
ATOM	3375	0	GLY	16	20.143	44.321	34.326	1.00 89.59	AP2
ATOM	3376	N	VAL	17	18.928	46.207	34.553		AP2
ATOM	3377	CA	VAL	17	20.092	47.092	34.452	1.00 90.59	AP2
ATOM	3378	CB	VAL	17	20.148	47.718	33.034	1.00 91.73	AP2
ATOM	3379	CG1	VAL	17	20.461	46.641	32.006	1.00 91.33	AP2
ATOM	3380		VAL	17	18.816	48.361	32.700	1.00 91.06	AP2
ATOM	3381	C	VAL	17	20.228	48.205	35.521	1.00 91.16	AP2
ATOM	3382	0	VAL	17	20.108	49.412	35.233	1.00 92.74	AP2
ATOM	3383	N	ASP	18	20.496	47.780	36.755	1.00 92.96	AP2
ATOM	3384	CA	ASP	18	20.682	48.690	37.887	1.00 93.61	AP2
ATOM	3385	СВ	ASP	18	21.912	49.587		1.00 94.45	AP2
ATOM	3386	CG	ASP	18	23.091	49.238	37.648 38.562	1.00 94.58	AP2
ATOM	3387		ASP	18	23.038	48.187	39.248	1.00 94.83	AP2
ATOM	3388		ASP	18	24.074	50.017		1.00 94.73	AP2
ATOM	3389	c	ASP	18	19.486	49.575	38.586	1.00 94.69	AP2
ATOM	3390	ō	ASP	18	18.648	49.220	38.233	1.00 94.87	AP2
ATOM	3391	N	GLU	19	19.428	50.725	39.072 37.569	1.00 95.08	AP2
ATOM	3392	CA	GLU	19	18.406	51.745		1.00 95.17	AP2
ATOM	3393	СВ	GLU	19	17.856		37.786	1.00 95.47	AP2
ATOM	3394	CG	GLU	19		51.675	39.219	1.00 95.60	AP2
ATOM	3395	CD	GLU	19	16.350 15.637	51.546	39.320	1.00 96.31	AP2
ATOM	3396		GLU	19	16.190	52.864	39.091	1.00 96.93	AP2
ATOM	3397		GLU	19	14.518	53.720	38.362	1.00 97.29	AP2
ATOM	3398	C	GLU	19	19.290	53.040	39.629	1.00 97.32	. AP2
ATOM	3399	ō	GLU	19		52.971	37.638	1.00 95.49	AP2
ATOM	3400	N	ALA	20	20.496	52.819	37.420	1.00 95.65	AP2
ATOM	3401	CA	ALA	20	18.725 19.529	54.168	37.753	1.00 95.26	AP2
ATOM	3402	СВ	ALA	20	20.298	55.383	37.627	1.00 95.13	AP2
ATOM	3403	C	ALA	20		55.638	38.919	1.00 94.92	AP2
ATOM	3404	o	ALA	20	20.503	55.217	36.464	1.00 94.92	AP2
ATOM	3405	И	ASP	20	21.551	55.865	36.407	1.00 94.78	AP2
ATOM	3406	CA	ASP	21	20.133	54.333	35.542	1.00 94.78	AP2
ATOM	3407	СВ	ASP	21	20.946	54.030	34.376	1.00 94.36	AP2
ATOM	3408	CG	ASP		21.514	52.619	34.503	1.00 94.73	AP2
ATOM	3409	OD1		21	22.692	52.402	33.603	1.00 95.30	AP2
ATOM	3410		ASP	21	23.821	52.771	34.000	1.00 95.81	AP2
ATOM	3411	C		21	22.486	51.887	32.487	1.00 95.82	AP2
ATOM	3412	0	ASP	21	20.055	54.120	33.141	1.00 93.80	AP2
	J-146	•	ASP	21	20.425	53.706	32.037	1.00 93.62	AP2

MOTA	3413	N	VAL	22	18.877	54.690	33.354	1.00 92.94	AP2
MOTA	3414	CA	<b>VAL</b>	22	17.878	54.846	32.315	1.00 92.17	AP2
MOTA	3415	CB	VAL	22	16.523	54.320	32.855	1.00 92.24	AP2
ATOM	3416	CG1	VAL	22	15.484	54.285	31.758	1.00 92.28	AP2
ATOM	3417	CG2	VAL	22	16.722	52.933	33.472	1.00 91.98	AP2
ATOM	3418	C	VAL	22	17.741	56.308	31.843	1.00 91.45	AP2
ATOM	3419	0	VAL	22	16.783	56.992	32.194	1.00 91.67	AP2
MOTA	3420	И	LYS	23	18.693	56.787	31.044	1.00 90.56	AP2
ATOM	3421	CA	LYS	23	18.653	58.168	30.540	1.00 89.58	AP2
ATOM	3422	CB	LYS	23	20.078	58.706	30.378	1.00 89.69	AP2
MOTA	3423	C	LYS	23	17.899	58.274	29.211	1.00 88.74	AP2
ATOM	3424	0	LYS	23	17.965	57.369	28.388	1.00 88.66	AP2
MOTA	3425	N	LEU	24	17.193	59.381	28.996	1.00 87.78	AP2
ATOM	3426	CA	LEU	24	16.423	59.565	27.760	1.00 86.87	AP2
ATOM	3427	CB	LEU	24	15.801	60.976	27.689	1.00 86.41	AP2
ATOM	3428	CG	LEU	24	14.684	61.499	28.603	1.00 86.03	AP2
ATOM	3429		LEU	24	13.613	60.437	28.744	1.00 86.18	AP2
ATOM ATOM	3430 3431		LEU	24	15.231	61.899	29.956	1.00 85.71	AP2
ATOM	3432	C	LEU	24	17.255	59.347	26.497	1.00 86.36	AP2
ATOM	3432	<b>и</b>	LEU	24	16.716	59.246	25.396	1.00 86.46	AP2
ATOM	3434	CA	GLU GLU	25	18.570	59.285	26.663	1.00 85.76	AP2
ATOM	3435	CB	GLU	25	19.500	59.103	25.545	1.00 85.09	AP2
ATOM	3436	CG	GLU	25 25	20.607	60.138	25.649	1.00 85.64	AP2
ATOM	3437	CD	GLU	25	21.204 21.379	60.175	27.047	1.00 86.77	AP2
ATOM	3438	OE1		25	22.292	61.586	27.571	1.00 87.43	AP2
ATOM	3439	OE2	GLU	25	20.601	62.287 61.989	27.075	1.00 87.74	AP2
ATOM	3440	c	GLU	25	20.117	57.713	28.470	1.00 87.25	AP2
ATOM	3441	ō	GLU	25	20.876	57.713	25.561 24.662	1.00 84.14 1.00 84.00	AP2
ATOM	3442	N	ALA	26	19.798	56.957	26.607	1.00 83.18	AP2
ATOM	3443	CA	ALA	26	20.289	55.591	26.776	1.00 83.18	AP2
ATOM	3444	CB	ALA	26	19.927	55.065	28.174	1.00 82.20	AP2 AP2
ATOM	3445	C	ALA	26	19.676	54.684	25.708	1.00 81.46	AP2
ATOM	3446	0	ALA	26	18.469	54.418	25.724	1.00 81.38	AP2
ATOM	3447	N	SER	27	20.508	54.236	24.771	1.00 80.43	AP2
ATOM	3448	CA	SER	27	20.066	53.338	23.709	1.00 79.24	AP2
ATOM	3449	CB	SER	27	21.121	53.254	22.598	1.00 78.96	AP2
ATOM	3450	OG	SER	27	20.722	52.381	21.556	1.00 78.46	AP2
ATOM	3451	C	SER	27	19.856	51.956	24.321	1.00 78.58	AP2
MOTA	3452	0	SER	27	20.722	51.452	25.052	1.00 78.03	AP2
MOTA	3453	N	PHE	28	18.697	51.365	24.033	1.00 77.69	AP2
ATOM	3454	CA	PHE	28	18.364	50.046	24.537	1.00 77.23	· AP2
MOTA	3455	CB	PHE	28	17.005	49.606	24.002	1.00 77.11	AP2
ATOM	3456	CG	PHE	28	15.874	50.490	24.413	1.00 76.99	AP2
ATOM	3457		PHE	28	15.477	50.556	25.750	1.00 76.84	AP2
MOTA	3458		PHE	28	15.194	51.248	23.466	1.00 76.77	AP2
MOTA	3459		PHE	28	14.422	51.357	26.137	1.00 76.38	AP2
MOTA	3460		PHE	28	14.136	52.056	23.835	1.00 76.78	AP2
ATOM	3461	CZ	PHE	28	13.747	52.112	25.177	1.00 77.00	AP2
ATOM	3462	C	PHE	28	19.412	49.034	24.082	1.00 77.03	AP2
ATOM	3463	0	PHE	28	19.960	48.275	24.880	1.00 76.80	AP2
ATOM	3464	N	LYS	29	19.683	49.039	22.785	1.00 76.69	AP2
ATOM	3465	CA	LYS	29	20.625	48.109	22.197	1.00 76.65	AP2
ATOM	3466	CB	LYS	29	20.549	48.208	20.671	1.00 77.14	AP2
ATOM	3467	CG	LYS	29	19.127	48.454	20.149	1.00 77.87	AP2
ATOM	3468	CD	LYS	29	18.817	47.607	18.923	1.09 78.22	AP2
ATOM	3469	CE	LYS	29	19.009	46.118	19.223	1.00 77.99	AP2

ATOM	3470	NZ	LYS	29	18.729	45.262	19 020			
ATOM	3471	C	LYS	29	22.055	48.331	18.028 22.661		77.84	AP2
ATOM	3472	0	LYS	29	22.691	47.426	23.204		76.29	AP2
ATOM	3473	N	GLU	30	22.555	49.544	22.465		76.44	AP2
ATOM	3474	CA	GLU	30	23.925	49.864	22.465		75.77	AP2
ATOM	3475	CB	GLU	30	24.388	51.081	22.042		74.94	AP2
MOTA	3476	CG	GLU	30	24.388	50.883	20.545	1.00		AP2
ATOM	3477	CD	GLU	30	24.656	52.184	19.800	1.00 1.00	76.33	AP2
ATOM	3478		. GLU	30	23.737	53.042	19.722	1.00		AP2
ATOM	3479	OE2		30	25.796	52.355	19.305	1.00		AP2
ATOM	3480	C	GLU	30	24.256	50.089	24.301	1.00		AP2
ATOM	3481	0	GLU	30	25.149	49.438	24.847	1.00		AP2
ATOM	3482	И	ASP	31	23.549	50.996	24.953		72.54	AP2 AP2
ATOM ATOM	3483	CA	ASP	31	23.873	51.311	26.335	1.00		AP2
ATOM	3484	CB	ASP	31	23.524	52.781	26.580	1.00		AP2
ATOM	3485	CG	ASP	31	24.270	53.725	25.619	1.00		AP2
ATOM	3486 3487	OD1		31	25.514	53.605	25.518		74.32	AP2
ATOM	3488		ASP	31	23.632	54.585	24.965	1.00	73.71	AP2
ATOM	3489	С 0	ASP ASP	31	23.284	50.417	27.429	1.00		AP2
ATOM	3490	и	LEU	31	23.823	50.337	28.536	1.00	69.24	AP2
ATOM	3491	CA	LEU	32	22.205	49.711	27.110	1.00	68.91	AP2
ATOM	3492	CB	LEU	32 32	21.541	48.861	28.089		67.85	AP2
ATOM	3493	CG	LEU	32	20.073	49.255	28.110	1.00		AP2
ATOM	3494		LEU	32	19.920	50.701	28.569	1.00		AP2
ÄTOM	3495		LEU	32	18.472	51.131	28.462	1.00		AP2
ATOM	3496	c	LEU	32	20.422	50.809	30.012	1.00		AP2
ATOM	3497	ō	LEU	32	21.686 21.176	47.323	28.021	1.00		AP2
ATOM	3498	N	GLY	33	22.373		28.894	1.00		AP2
ATOM	3499	CA	GLY	33	22.581	46.811 45.370	27.003	1.00		AP2
MOTA	3500	C	GLY	33	21.416	44.529	26.884	1.00		AP2
ATOM	3501	0	GLY	33	21.169	43.428	26.372 26.874	1.00		AP2
ATOM	3502	N	ALA	34 .	20.704	45.039	25.370	1.00		AP2
ATOM	3503	CA	ALA	34	19.556	44.331	24.810	1.00		AP2
ATOM	3504	CB	ALA	34	18.316	45.248	24.802	1.00		AP2
MOTA	3505	C	ALA	34	19.805	43.797	23.407	1.00		AP2
MOTA	3506	0	ALA	34	20.259	44.534	22.516	1.00		AP2 AP2
ATOM	3507	N	ASP	35	19.526	42.507	23.225	1.00		AP2
ATOM	3508	CA	ASP	35	19.663	41.882	21.910	1.00		AP2
ATOM	3509	CB	ASP	35	19.991	40.383	22.019	1.00		AP2
ATOM	3510	CG	ASP	35	18.982	39.589	22.864	1.00		AP2
ATOM ATOM	3511		ASP	35	17.860	40.067	23.129	1.00 4		AP2
ATOM	3512		ASP	35	19.338	38.455	23.241	1.00 4		· AP2
ATOM	3513 3514	C	ASP	35	18.324	42.080	21.226	1.00 5	2.01	AP2
ATOM	3515	O CA	ASP	35	17.462	42.783	21.770	1.00 5	2.08	AP2
ATOM	3516		PAN	36	16.850	41.659	19.373	1.00 5	0.23	AP2.
ATOM	3517	С И	PAN	36	18.121	41.475	20.056	1.00 5		AP2
ATOM	3518	0	PAN	36	15.682	41.035	20.163	1.00 4		AP2
ATOM	3519	05	PAN PAN	36	14.624	41.642	20.258	1.00 4		AP2
ATOM	3520	P6	PAN	36 36	15.669	41.227	17.265	1.00 5		AP2
ATOM	3521	07	PAN	36 36	15.526	42,266	16.074	1.00 5		AP2
ATOM	3522	08	PAN	36	15.304	41.457	14.765	1.00 5		AP2
ATOM	3523	09	PAN	36	16.936	43.007	15.954	1.00 5		AP2
ATOM	3524	СВ	PAN	36	14.356	43.189	16.312	1.00 5		AP2
ATOM	3525	N	LEU	37	16.941 15.865	41.113	17.950	1.00 5		AP2
ATOM	3526		LEU	37	15.865	39.849	20.737	1.00 4		AP2
					43./04	39.240	21.505	1.00 4	7.87	AP2

ATOM	3527	CB	LEU	37	15.158	37.825	21.961	1.00 47.41	AP2
ATOM	3528	CG .		37	14.000	37.054	22.630	1.00 49.24	AP2
MOTA	3529	CD1		37	12.869	36.789	21.613	1.00 48.71	AP2
MOTA	3530	CD2		37	14.491	35.718	23.189	1.00-49.58	AP2
MOTA	3531	C	LEU	37	14.382	40.114	22.731	1.00 47.82	AP2
MOTA	3532	0	LEU	37	13.201	40.221	23.046	1.00 46.87	AP2
MOTA	3533	N	ASP	38	15.349	40.772	23.388	1.00 47.86	AP2
ATOM	3534	CA	ASP	38	15.015	41.602	24.551	1.00 47.84	AP2
ATOM	3535	CB	ASP	38	16.264	42.164	25.278	1.00 47.82	AP2
MOTA	3536	CG	ASP	38	17.157	41.078	25.909	1.00 47.77	AP2
ATOM	3537	OD1	ASP	38	18.384	41.221	25.817	1.00 47.55	AP2
ATOM	3538	OD2	ASP	38	16.663	40.095	26.506	1.00 48.56	AP2
MOTA	3539	C	ASP	38	14.176	42.767	24.072	1.00 47.53	AP2
ATOM	3540	0	ASP	38	13.221	43.171	24.728	1.00 47.07	AP2
ATOM	3541	N	VAL	39	14.505	43.295	22.905	1.00 47.99	AP2
ATOM	3542	CA	VAL	39	13.747	44.441	22.426	1.00 47.95	AP2
ATOM	3543	CB	VAL	39	14.466	45.138	21.301	1.00 47.96	AP2
ATOM	3544	CG1	VAL	39	14.203	44.460	19.969	1.00 49.07	AP2
MOTA	3545		VAL	39	14.002	46.543	21.270	1.00 49.98	AP2
ATOM	3546	C	VAL	39	12.291	44.172	22.034	1.00 47.86	AP2
MOTA	3547	0	VAL	39	11.438	45.056	22.217	1.00 47.51	AP2
ATOM	3548	N	VAL	40	11.976	42.981	21.505	1.00 47.55	AP2
ATOM	3549	CA	VAL	40	10.564	42.723	21.185	1.00 48.42	AP2
ATOM	3550	CB	VAL	40	10.296	41.526	20.144	1.00 47.99	AP2
ATOM	3551		VAL	40	11.559	40.997	19.585	1.00 47.99	AP2
ATOM	3552		VAL	40	9.484	40.438	20.758	1.00 48.83	AP2
ATOM	3553	C	VAL	40	9.766	42.494	22.480		AP2
ATOM	3554	ō	VAL	40	8.618	42.879	22.549	1.00 47.57	
ATOM	3555	И	GLU	41	10.370	41.886		1.00 47.57	AP2
ATOM	3556	CA	GLU	41	9.643	41.685	23.502	1.00 49.18	AP2
ATOM	3557	CB	GLU	41	10.387		24.753		AP2
ATOM	3558	CG	GLU	41	10.387	40.718	25.673	1.00 53.01	AP2
ATOM	3559	CD	GLU	41	10.552	39.232	25.400	1.00 56.63	AP2
ATOM	3560		GLU			38.329	26.536	1.00 58.01	AP2
ATOM	3561	OE1		41	11.776	38.066	26.609	1.00 59.21	AP2
				41	9.704	37.902	27.366	1.00 59.16	AP2
MOTA	3562	C	GLU	41	9.440	43.020	25.451	1.00 50.42	AP2
ATOM	3563	0	GLU	41	8.452	43.233	26.134	1.00 49.86	AP2
MOTA	3564	N	LEU	42	10.393	43.923	25.248	1.00 50.66	AP2
ATOM	3565	CA	LEU	42	10.331	45.247	25.822	1.00 50.65	AP2
ATOM	3566	CB	LEU	42	11.630	45.984	25.529	1.00 51.48	AP2
ATOM	3567	CG	LEU	42	11.958	47.238	26.337	1.00 52.85	AP2
ATOM	3568		LEU	42	11.999	46.858	27.818	1.00 53.64	· AP2
ATOM	3569		LEU	42	13.327	47.821	25.899	1.00 52.34	,AP2
ATOM	3570	C	LEU	42	9.143	45.946	25.167	1.00 50.78	AP2
ATOM	3571	0	LEU	42	8.256	46.454	25.860	1.00 50.87	AP2
ATOM	3572	N	VAL	43	9.109	45.933	23.839	1.00 50.50	AP2
ATOM	3573	CA	VAL	43	8.026	46.554	23.081	1.00 51.44	AP2
MOTA	3574	CB	VAL	43	8.222	46.359	21.529	1.00 50.86	AP2
ATOM	3575		VAL	43	6.963	46.746	20.762	1.00 50.60	AP2
MOTA	3576	CG2		43	9.376	47.197	21.041	1.00 50.67	AP2
ATOM	3577	C	VAL	43	6.679	45.964	23.480	1.00 52.40	AP2
MOTA	3578	0	VAL	43	5.695	46.665	23.618	1.00 51.57	AP2
MOTA	3579	N	MET	44	6.633	44.656	23.658	1.00 54.33	AP2
MOTA	3580	CA	MET	44	5.383	44.020	24.030	1.00 56.33	AP2
MOTA	3581	CB	MET	44	5.557	42.509	24.002	1.00 56.08	AP2
MOTA	3582	CG	MET	44	6.120	42.014	22.700	1.00 57.30	AP2
ATOM	3583	SD	MET	44	5.978	40.248	22.480	1.00 57.38	AP2
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MOTA	3584	CE	MET	44	4.348	40.338	21.654	1.00 57.15	AP2
MOTA	3585	C	MET	44	4.916	44.501	25.414	1.00 57.88	AP2
ATOM	3586	0	MET	44	3.734	44.764	25.619	1.00 57.09	AP2
ATOM	3587	N	GLU	45	5.863	44.646	26.341	1.00 59.93	AP2
ATOM	3588	CA	GLU	45	5.554	45.105	27.691	1.00 62.06	AP2
ATOM	3589	CB	GLU	45	6.834	45.156	28.544	1.00 63.72	AP2
ATOM	3590	CG	GLU	45	6.613	44.808	30.038	1.00 67.19	AP2
ATOM ATOM	3591	CD	GLU	45	6.406	43.296	30.299	1.00 69.02	AP2
ATOM	3592 3593	OE1	GLU	45	5.445	42.704	29.729	1.00 69.48	AP2
ATOM	3594	C C	GLU GLU	45	7.212	42.701	31.074	1.00 69.81	AP2
ATOM	3595	0	GLU	45 45	4.927	46.491	27.580	1.00 62.29	AP2
ATOM	3596	и	LEU	46	3.927 5.508	46.777	28.232	1.00 62.46	AP2
ATOM	3597	CA	LEU	46	4.998	47.338	26.730	1.00 62.52	AP2
ATOM	3598	СВ	LEU	46	5.938	48.686 49.485	26.514	1.00 62.72	AP2
ATOM	3599	CG	LEU	46	7.442	49.583	25.595	1.00 62.51	AP2
ATOM	3600		LEU	46	8.093	50.528	25.906 24.900	1.00 62.73	AP2
ATOM	3601		LEU	46	7.673	50.082	27.318	1.00 61.98 1.00 62.24	AP2
MOTA	3602	C	LEU	46	3.604	48.629	25.884	1.00 63.09	AP2
MOTA	3603	0	LEU	46	2.758	49.481	26.150	1.00 63.09	AP2
MOTA	3604	И	GLU	47	3.373	47.617	25.050	1.00 63.87	AP2 AP2
MOTA	3605	CA	GLU	47	2.090	47.440	24.372	1.00 64.51	AP2
MOTA	3606	CB	GLU	47	2.157	46.295	23.344	1.00 64.64	AP2
MOTA	3607	CG	GLU	47	2.460	46.416	21.850	1.00 20.00	AP2
ATOM	3608	CD	GLU	47	2.451	45.221	20.924	1.00 20.00	AP2
ATOM	3609	OE1		47	2.262	44.023	21.080	1.00 20.00	AP2
ATOM	3610	OE2	GLU	47	2.447	45.762	19.820	1.00 20.00	AP2
ATOM	3611	C	GLU	47	0.990	47.250	25.411	1.00 64.90	AP2
ATOM	3612	0	GLU	47	-0.092	47.818	25.292	1.00 64.70	AP2
ATOM ATOM	3613	И	ASP	48	1.282	46.458	26.431	1.00 65.21	AP2
ATOM	3614	CA	ASP	48	0.311	46.171	27.460	1.00 66.10	AP2
ATOM	3615 3616	CB CG	ASP ASP	48	0.675	44.868	28.155	1.00 66.99	AP2
ATOM	3617		ASP	48 48	0.739	43.704	27.175	1.00 68.14	AP2
ATOM	3618		ASP	48	-0.039	43.720	26.181	1.00 68.23	AP2
ATOM	3619	C	ASP	48	1.561 0.198	42.782	27.394	1.00 68.71	AP2
ATOM	3620	ō	ASP	48	-0.862	47.284	28.451	1.00 66.30	AP2
ATOM	3621	N	GLU	49	1.310	47.863 47.593	28.609	1.00 66.33	AP2
ATOM	3622	CA	GLU	49	1.390	48.652	29.094 30.085	1.00 66.84 1.00 67.24	AP2
MOTA	3623	CB	GLU	49	2.852	48.913	30.425	1.00 67.24	AP2 AP2
ATOM	3624	CG	GLU	49	3.081	49.967	31.498	1.00 70.53	AP2
ATOM	3625	CD	GLU	49	2.745	49.446	32.885	1.00 71.90	· AP2
ATOM	3626		GLU	49	3.012	48.237	33.122	1.00 72.29	AP2
ATOM	3627	OE2	GLU	49	2.234	50.237	33.725	1.00 72.12	AP2
ATOM	3628	C	GLU	49	0.769	49.977	29.678	1.00 67.07	AP2
ATOM	3629	0	GLU	49	0.421	50.77B	30.542	1.00 67.58	AP2
ATOM	3630	N	PHE	50	0.636	50.235	28.381	1.00 66.27	AP2
ATOM	3631	CA	PHE	50	0.084	51.515	27.953	1.00 65.90	AP2
ATOM	3632	CB	PHE	50	1.183	52.350	27.295	1.00 65.47	AP2
ATOM	3633	CG	PHE	50	2.157	52.959	28.271	1.00 65.11	AP2
ATOM	3634		PHE	50	1.881	54.185	28.882	1.00 64.59	AP2
MOTA MOTA	3635		PHE	50	3.343	52.306	28.595	1.00 64.67	AP2
ATOM	3636 3637		PHE	50	2.767	54.745	29.791	1.00 64.20	AP2
ATOM	3638	CE2		50 50	4.237	52.870	29.512	1.00 64.53	AP2
ATOM	3639	C	PHE	50 50	3.947	54.086	30.105	1.00 64.19	AP2
ATOM	3640	0	PHE	50 50	-1.081	51.349	27.001	1.00 66.10	AP2
	5010	•	E ILE	.30	-1.685	52.316	26.534	1.00 66.26	AP2

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ATOM	3641	N	ASP	51	-1.402	50.103	26.713	1.00 66.29	AP2
ATOM	3642	CA	ASP	51	-2.487	49.794	25.809	1.00 66.30	AP2
ATOM	3643	CB	ASP	51	-3.818	50.201	26.427	1.00 67.89	AP2
ATOM	3644	CG	ASP	51	-4.959	49.359	25.908	1.00 68.99	AP2
MOTA	3645		ASP	51	-4.916	48.131	26.144	1.00 69.70	AP2
ATOM	3646	OD2	ASP	51	-5.881	49.909	25.252	1.00 70.00	
ATOM	3647	C	ASP	51	-2.360	50.406	24.412	1.00 65.79	AP2
ATOM	3648	0	ASP	51	-3.275	51.088	23.938	1.00 65.17	AP2
ATOM	3649	N	MET	52	-1.215	50.155	23.766	1.00 65.48	AP2
MOTA	3650	CA	MET	52	-0.951	50.606	22.400	1.00 65.07	AP2
MOTA	3651	CB	MET	52	0.032	51.782	22.387	1.00 65.16	AP2
ATOM	3652	CG	MET	52	1.226	51.618	23.307	1.00 65.99	AP2
ATOM	3653	SD	MET	52	2.324	53.078	23.241	1.00 66.46	AP2
ATOM	3654	CE	MET	52	1.109	54.407	23.535	1.00 66.46	AP2
MOTA	3655	C	MET	52	-0.413	49.420	21.577	1.00 64.74	AP2
ATOM	3656	0	MET	52	-0.176	48.338	22.124	1.00 64.74	AP2
ATOM	3657	И	GLU	53	-0.233	49.621	20.270	1.00 64.30	AP2
ATOM	3658	CA	GLU	53	0.240	48.561	19.383	1.00 64.21	AP2
ATOM	3659	CB	GLU	53	-0.438	48.681	18.021		AP2
ATOM	3660	CG	GLU	53	-1.947	48.589	18.025	1.00 65.03	AP2
ATOM	3661	CD	GLU	53	-2.502	48.558		1.00 67.15	AP2
ATOM	3662	OE1	GLU	53	-1.772	49.026	16.606	1.00 68.94	AP2
ATOM	3663		GLU	53	-3.651	48.077	15.698	1.00 69.75	AP2
ATOM	3664	C	GLU	53	1.370		16.391	1.00 69.40	AP2
ATOM	3665	ō	GLU	53	1.138	49.384	18.714	1.00 62.69	AP2
ATOM	3666	N	ILE	54	2.577	50.531 48.811	18.242	1.00 62.84	AP2
ATOM	3667	CA	ILE	54	3.777		18.703	1.00 60.28	AP2
ATOM	3668	CB	ILE	54		49.462	18.159	1.00 58.22	AP2
ATOM	3669	CG2	ILE	54	4.722	49.262	19.364	1.00 58.17	AP2
ATOM	3670		ILE	5 <b>4</b>	6.177	49.590	18.924	1.00 58.30	AP2
ATOM	3671		ILE	54	4.302	50.170	20.534	1.00 58.24	AP2
ATOM	3672	C	ILE	54	5.286	50.195	21.696	1.00 57.29	AP2
ATOM	3673	o	ILE		4.147	48.405	17.101	1.00 56.70	AP2
ATOM	3674	И		54	4.502	47.272	17.413	1.00 56.48	AP2
ATOM	3675		SER	55	4.053	48.804	15.842	1.00 54.79	AP2
ATOM	3676	CA	SER	55	4.389	47.968	14.704	1.00 52.52	AP2
ATOM		CB	SER	55	4.019	48.705	13.434	1.00 52.24	AP2
ATOM	3677 3678	og G	SER	55	4.831	49.876	13.340	1.00 50.08	AP2
ATOM		C	SER	55	5.896	47.742	14.651	1.00 52.02	AP2
	3679	0	SER	55	6.653	48.361	15.400	1.00 50.47	AP2
MOTA	3680	N	ASP	56	6.316	46.870	13.734	1.00 51.52	AP2
ATOM	3681	CA	ASP	56	7.734	46.611	13.526	1.00 51.65	AP2
MOTA	3682	CB	ASP	56	7.955	45.432	12.561	1.00 51.39	AP2
ATOM	3683	CG	ASP	56	7.585	44.072	13.173	1.00 51.27	· AP2
ATOM	3684	OD1		56	7.718	43.888	14.397	1.00 50.03	AP2
ATOM	3685	OD2		56	7.180	43.173	12.405	1.00 51.66	AP2
ATOM	3686	C	ASP	56	8.335	47.897	12.926	1.00 51.59	AP2
ATOM	3687	0	ASP	56	9.470	48.254	13.208	1.00 50.53	AP2
ATOM	3688	N	GLU	57	7.549	48.608	12.127	1.00 52.32	AP2
ATOM	3689	CA	GLU	57	8.036	49.834	11.523	1.00 54.22	AP2
ATOM	3690	CB	GLU	57	6.990	50.414	10.550	1.00 55.66	AP2
ATOM	3691	CG	GLU	57	7.397	51.743	9.901	1.00 57.60	AP2
ATOM	3692	CD	GLU	57	6.659	52.010	8.598	1.00 59.28	AP2
ATOM	3693	OE1		57	5.490	52.440	8.637	1.00 59.81	AP2
ATOM	3694	OE2	GLU	57	7.244	51.779	7.516	1.00 60.85	AP2
ATOM	3695	C	GLU	57	8.353	50.849	12.606	1.00 54.45	AP2
ATOM	3696	0	GLU	57	9.366	51.522	12.541	1.00 54.39	AP2
MOTA	3697	N	ASP	58	7.465	50.933	13.596	1.00 55.48	AP2
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ATOM	3698	CA	ASP	58	7.567	51.848	14 727	• • • • • • •	
MOŢA	3699	CB	ASP	58	6.199	51.991	14.737 15.409	1.00 55.90	AP2
ATOM	3700	CG	ASP	58	5.191	52.738	14.539	1.00 56.10	AP2
ATOM	3701	OD1	. ASP	58	5.622	53.558	13.695	1.00 56.92	AP2
ATOM	3702	OD2		58	3.968	52.527	14.712	1.00 57.78	AP2
ATOM	3703	C	ASP	58	8.597	51.449	15.790	1.00 57.12 1.00 56.08	AP2
MOTA	3704	0	ASP	58	9.222	52.309	16.422	1.00 56.08	AP2
ATOM	3705	N	ALA	59	8.762	50.154	15.999	1.00 56.33	AP2
MOTA	3706	CA	ALA	59	9.727	49.677	16.970	1.00 57.11	AP2
ATOM	3707	CB	ALA	59	9.596	48.172	17.133	1.00 56.29	AP2
ATOM	3708	C	ALA	59	11.151	50.041	16.537	1.00 58.31	AP2 AP2
ATOM ATOM	3709	0	ALA	59	12.033	50.211	17.370	1.00 58.41	AP2
ATOM	3710	И	GLU	60	11.385	50.149	15.235	1.00 59.58	AP2
ATOM	3711 3712	. CA	GLU	60	12.716	50.510	14.759	1.00 61.45	AP2
ATOM	3713	CB CG	GLU	60	12.863	50.206	13.261	1.00 62.21	AP2
ATOM	3714	CD	GLU	60	14.185	50.674	12.636	1.00 62.75	AP2
ATOM	3715		GLU	60 60	14.216	50.448	11.142	1.00 63.75	AP2
ATOM	3716	OE2		60	14.397	49.285	10.719	1.00 65.16	AP2
ATOM	3717	C	GLU	60	14.045	51.419	10.380	1.00 64.13	AP2
ATOM	3718	ŏ	GLU	60	12.928	52.000	15.006	1.00 62.56	AP2
ATOM	3719	N	LYS	61	14.036 11.845	52.442	15.314	1.00 62.46	AP2
ATOM	3720	CA	LYS	61	11.887	52.762	14.886	1.00 63.87	AP2
ATOM	3721	CB	LYS	61	10.522	54.200 54.809	15.086	1.00 65.19	AP2
ATOM	3722	CG	LYS	61	10.507	56.330	14.761 14.791	1.00 66.28	AP2
ATOM	3723	CD	LYS	61	9.102	56.930		1.00 67.81	AP2
ATOM	3724	CE	LYS	61	9:225	58.430	15.010 15.426	1.00 68.60	AP2
MOTA	3725	NZ	LYS	61	7.943	59.126	15.786	1.00 69.32 1.00 68.93	AP2
ATOM	3726	C	LYS	61	12.289	54.577	16.510	1.00 65.76	AP2
ATOM	3727	0	LYS	61	12.885	55.619	16.719	1.00 66.25	AP2
ATOM	3728	N	ILE	62	11.979	53.744	17.499	1.00 66.49	AP2
ATOM	3729	CA	ILE	62	12.341	54.089	18.872	1.00 66.91	AP2 AP2
ATOM	3730	CB	ILE	62	11.135	53.957	19.833	1.00 66.83	AP2
ATOM	3731	CG2	ILE	62	10.425	55.289	19.929	1.00 67.42	AP2
ATOM	3732	CG1	ILE	62	10.154	52.896	19.349	1.00 66.56	AP2
MOTA MOTA	3733	CD1		62	8.929	52.796	20.241	1.00 65.95	AP2
ATOM	3734	C	ILE	62	13.535	53.360	19.467	1.00 67.38	AP2
ATOM	3735	0	ILE	62	13.415	52.271	20.038	1.00 67.69	AP2
ATOM	3736 3737	N	ALA	63	14.691	54.010	19.360	1.00 68.00	AP2
ATOM	3737 3738	CA CB	ALA ALA	63	15.958	53.465	19.847	1.00 68.34	AP2
ATOM	3739	C	ALA	63	17.099	53.977	18.965	1.00 68.67	AP2
ATOM	3740	0	ALA	63 63	16.286	53.741	21.322	1.00 68.26	· AP2
ATOM	3741	N	THR	64	16.791	52.851	22.025	1.00 68.25	AP2
MOTA	3742	CA	THR	64	16.016 16.312	54.966	21.780	1.00 67.85	AP2
ATOM	3743	СВ	THR	64	16.968	55.352	23.164	1.00 67.48	AP2
ATOM	3744	0G1		64	16.115	56.751 57.709	23.239	1.00 67.62	AP2
ATOM	3745	CG2	THR	64	18.340	56.749	22.594	1.00 68.15	AP2
ATOM	3746	C	THR	64	15.098	55.379	22.572 24.092	1.00 67.72 1.00 67.10	AP2
ATOM	3747	0	THR	64	13.941	55.343	23.651		AP2
ATOM	3748	N	VAL	65	15.392	55.448	25.386	1.00 67.12	AP2
ATOM	3749	CA	VAL	65	14.378	55.500	26.414	1.00 65.55	AP2 AP2
ATOM	3750	CB	VAL	65	15.018	55.579	27.777	1.00 65.53	AP2
MOTA	3751	CG1		65	13.940	55.593	28.848	1.00 65.46	AP2
ATOM	3752		VAL	<b>.</b> 65	15.967	54.392	27.959	1.00 65.23	AP2
ATOM	3753	C	VAL	65	13.534	56.731	26.180	1.00 65.33	AP2
ATOM	3754	0	VAL	65	12.315	56.705	26.308	1.00 64.73	AP2
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MOTA	3755	N	GLY	66	14.198	57.814	25.813	1.00 65.45	3.00
ATOM	3756	CA	GLY	66	13.488	59.043	25.533	1.00 65.45	AP2
ATOM	3757	C	GLY	66	12.603	58.856	24.320	1.00 65.64	AP2
ATOM	3758	0	GLY	66	11.508	59.419	24.261	1.00 65.65	AP2
MOTA	3759	N	ASP	67	13.085	58.078	23.347	1.00 65.58	AP2
ATOM	3760	CA	ASP	67	12.322	57.797	22.139		AP2
ATOM	3761	CB	ASP	67	13.137	56.932	21.176	1.00 65.56	AP2
ATOM	3762	CG	ASP	67	14.045	57.744		1.00 66.26	AP2
ATOM	3763		ASP	67	14.975	57.140	20.277	1.00 66.73	AP2
ATOM	3764		ASP	67	13.822	58.972	19.697	1.00 66.67	AP2
ATOM	3765	C	ASP	67	11.076	57.037	20.141	1.00 67.11	AP2
ATOM	3766	0	ASP	67	9.992	57.037	22.548	1.00 65.28	AP2
ATOM	3767	N	ALA	68	11.246	56.136	22.002	1.00 65.07	AP2
ATOM	3768	CA	ALA	68	10.136	55.333	23.511	1.00 65.21	AP2
ATOM	3769	CB	ALA	68	10.649	54.312	24.014	1.00 65.16	AP2
ATOM	3770	C	ALA	68	9.122		25.014	1.00 64.87	AP2
ATOM	3771	0	ALA	68	7.935	56.259 56.235	24.670	1.00 65.09	AP2
ATOM	3772	N	VAL	69	9.611		24.355	1.00 64.84	AP2
ATOM	3773	CA	VAL	69	8.762	57.096	25.570	1.00 65.44	AP2
ATOM	3774	CB	VAL	69	9.615	58.038	26.271	1.00 65.98	AP2
ATOM	3775	CG1		69		58.912	27.239	1.00 66.24	AP2
ATOM	3776	CG2	VAL	69	8.723	59.905	27.975	1.00 66.37	AP2
ATOM	3777	C	VAL	69	10.340	58.011	28.258	1.00 66.23	AP2
ATOM	3778	0	VAL		8.010	58.911	25.261	1.00 66.16	AP2
ATOM	3779	И	ASN	69 70	6.786	59.030	25.314	1.00 66.01	AP2
ATOM	3780	CA	ASN	70 70	8.738	59.491	24.318	1.00 66.66	AP2
ATOM	3781	CB	ASN		8.119	60.343	23.304	1.00 67.53	AP2
ATOM	3782	CG	ASN	70	9.173	60.910	22.360	1.00 67.86	AP2
ATOM	3783			70 70	9.775	62.168	22.887	1.00 68.32	AP2
ATOM	3784	ND2		70 70	9.102	62.932	23.581	1.00 68.33	AP2
ATOM	3785	C ND2		70	11.040	62.412	22.561	1.00 68.72	AP2
ATOM	3786		ASN	70	7.041	59.667	22.472	1.00 67.96	AP2
ATOM	3787	0	ASN	70	6.031	60.300	22.118	1.00 67.43	AP2
ATOM	3788	N	TYR	71	7.275	58.395	22.141	1.00 68.35	AP2
ATOM	3789	CA	TYR	71	6.321	57.643	21.357	1.00 68.79	AP2
ATÔM	3790	CB	TYR	71	6.846	56.259	21.032	1.00 68.30	AP2
ATOM		CG	TYR	71	5.923	55.514	20.104	1.00 68.05	AP2
ATOM	3791	CD1		71	4.870	54.753	20.601	1.00 67.75	AP2
ATOM	3792	CE1	TYR	71	4.015	54.060	19.743	1.00 67.76	AP2
	3793	CD2	TYR	71	6.095	55.574	18.724	1.00 67.68	AP2
ATOM	3794	CE2	TYR	71	5.244	54.891	17.862	1.00 67.56	AP2
ATOM	3795	CZ	TYR	71	4.209	54.130	18.375	1.00 67.54	AP2
ATOM	3796	OH	TYR	71	3.398	53.405	17.526	1.00 67.12	· AP2
ATOM	3797	C	TYR	71	5.050	57.547	22.167	1.00 69.54	AP2
ATOM	3798	0	TYR	71	3.972	57.833	21.665	1.00 69.15	AP2
ATOM	3799	N	ILE	72	5.178	57.137	23.421	1.00 70.67	AP2
ATOM	3800	CA	ILE	72	4.019	57.064	24.291	1.00 72.16	AP2
ATOM	3801	CB	ILE	72	4.409	56.482	25.638	1.00 71.69	AP2
ATOM	3802		ILE	72	3.192	56.337	26.507	1.00 71.53	AP2
ATOM	3803	CG1		72	5.075	55.120	25.433	1.00 71.64	AP2
ATOM	3804	CD1		72	5.828	54.632	26.651	1.00 70.95	AP2
ATOM	3805	C	ILE	72	3.613	58.528	24.461	1.00 73.58	AP2
ATOM	3806	0	ILE	72	4.055	59.183	25.401	1.00 73.89	AP2
ATOM	3807	N	GLN	73	2.811	59.025	23.510	1.00 74.98	AP2
ATOM	3808	CA	GLN	73	2.308	60.418	23.421	1.00 75.56	AP2
ATOM	3809	CB	GLN	.73	3.282	61.415	24.068	1.00 76.72	AP2
ATOM	3810	CG	GLN	73	3.248	61.493	25.597	1.00 78.78	AP2
ATOM	3811	CD	GLN	73	4.435	62.272	26.189	1.00 79.69	AP2
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MOTA	3812	OE1	GLN	73	4.730	63.398	25.764	1.00 80.13	AP2
ATOM	3813	NE2	GLN	73	5.100	61.685	27.188	1.00 79.77	AP2 AP2
MOTA	3814	C	GLN	73	2.171	60.766	21.921	1.00 75.34	AP2
MOTA	3815	OT1	GLN	73	1.145	60.381	21.304	1.00 74.80	AP2
MOTA	3816	OT2	GLN	73	3.114	61.391	21.370	1.00 75.08	AP2
ATOM	3817	CB	ALA	1	1.800	-6.041	21.213	1.00 80.30	AP3
ATOM	3818	C	ALA	1	2.577	-6.903	23.453	1.00 80.06	AP3
ATOM	3819	0	ALA	1	2.622	-5.935	24.217	1.00 80.11	AP3
ATOM	3820	N	ALA	1	0.099	-6.809	22.864	1.00 80.88	AP3
ATOM	3821	CA	ALA	1	1.493	-7.021	22.374	1.00 80.41	AP3
ATOM	3822	N	ASP	2	3.439	-7.912	23.516	1.00 79.63	AP3
ATOM	3823	CA	ASP	2	4.556	-7.909	24.444	1.00 79.28	AP3
ATOM	3824	CB	ASP	2	4.998	-9.318	24.788	1.00 78.93	AP3
ATOM	3825	CG	ASP	2	6.087	-9.342	25.821	1.00 78.75	AP3
ATOM	3826	OD1	ASP	2	5.841	-8.839	26.940	1.00 78.53	AP3
ATOM	3827	OD2	ASP	2	7.181	-9.868	25.520	1.00 78.56	AP3
ATOM	3828	C	ASP	2	5.634	-7.256	23.609	1.00 79.40	AP3
ATOM	3829	0	ASP	2	6.715	-6.942	24.100	1.00 79.66	AP3
ATOM	3830	N	THR	3	5.337	-7.089	22.322	1.00 78.88	AP3
ATOM	3831	CA	THR	3	6.260	-6.440	21.413	1.00 78.63	AP3
MOTA	3832	CB	THR	3	5.832	-6.637	19.947	1.00 77.90	AP3
ATOM	3833	0G1	THR	3	6.193	-7.955	19.528	1.00 77.32	AP3
ATOM	3834	CG2	THR	3	6.513	-5.630	19.039	1.00 77.44	EGA
ATOM	3835	C	THR	3	6.239	-4.957	21.783	1.00 79.14	AP3
ATOM	3836	0	THR	3	7.285	-4.310	21.858	1.00 79.19	AP3
MOTA	3837	N	LEU	4	5.040	-4.435	22.035	1.00 79.46	AP3
MOTA	3838	CA	LEU	4	4.856	-3.039	22.419	1.00 79.70	AP3
MOTA	3839	CB	LEU	4	3.379	-2.702	22.486	1.00 79.44	AP3
MOTA	3840	CG	LEU	4	3.055	-1.299	22.973	1.00 79.41	AP3
MOTA	3841	CD1	LEU	4	3.240	-0.335	21.815	1.00 78.99	AP3
ATOM	3842	CD2	LEU	4	1.611	-1.253	23.493	1.00 79.05	AP3
ATOM	3843	C	LEU	4	5.458	-2.832	23.792	1.00 79.95	AP3
MOTA	3844	0	LEU	4	6.116	-1.832	24.040	1.00 79.62	AP3
ATOM	3845	N	GLU	5	5.220	-3.789	24.682	1.00 80.50	AP3
MOTA	3846	CA	GLU	5	5.744	-3.725	26.043	1.00 81.25	AP3
ATOM	3847	CB	GLU	5	5.352	-4.988	26.828	1.00 82.17	AP3
ATOM	3848	CG	GLU	5	4.862	-4.727	28.256	1.00 83.74	AP3
MOTA	3849	CD	GLU	5	3.754	-3.667	28.302	1.00 84.88	AP3
ATOM	3850	OE1	GLU	5	2.717	-3.846	27.619	1.00 85.02	
ATOM	3851		GLU	· <b>5</b>	3.921	-2.649	29.016	1.00 85.43	AP3 AP3
ATOM	3852	C	GLU	5	7.267	-3.595	25.998	1.00 81.11	AP3
ATOM	3853	0	GLU	5	7.869	-2.915	26.835	1.00 81.30	. AP3
MOTA	3854	N	ARG	6	7.881	-4.248	25.011	1.00 80.60	AP3
ATOM	3855	CA	ARG	6	9.325	-4.221	24.843	1.00 79.96	AP3
ATOM	3856	CB	ARG	6	9.816	-5.499	24.149	1.00 79.81	AP3
ATOM	3857	CG	ARG	6	9.847	-6.716	25.055	1.00 79.18	AP3
MOTA	3858	œ	ARG	6	10.927	-7.684	24.616	1.00 79.45	AP3
ATOM	3859	NE	ARG	6	10.589	-8.357	23.372	1.00 78.96	AP3
ATOM	3860	CZ	ARG	6	11.448		22.629	1.00 78.97	AP3
ATOM	3861	NHl	ARG	6	12.713	-9.163	22.991	1.00 79.03	AP3
MOTA	3862		ARG	6	11.038	-9.629	21.514	1.00 79.17	AP3
MOTA	3863	C	ARG	6	9.762	-2.999	24.058	1.00 79.85	AP3
MOTA	3864	0	ARG	6	10.894	-2.527	24.204	1.00 79.66	AP3
MOTA	3865	N	VAL	7	8.862	-2.491	23.225	1.00 79.59	AP3
MOTA	3866	CA	VAL	7	9.152	-1.308	22.439	1.00 79.61	AP3
ATOM	3867	CB	VAL	7	8.142	-1.136	21.275	1.00 79.79	AP3
ATOM	3868	CG1	VAL	7	7.714	0.317	21.147	1.00 79.88	AP3
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ATOM	3869		2 VAL	7	8.779	-1.601	19.960	1.00 79.63	3.00
MOTA MOTA	3870	_	VAL	7	9.084	-0.107			AP3 AP3
ATOM	3871	_	VAL	7	9.918	0.788			AP3
ATOM	3872 3873		THR	8	8.099	-0.104	24.246	1.00 79.81	AP3
ATOM	3874		THR	8	7.924	1.002	25.177	1.00 80.35	AP3
ATOM	3875		THR	8	6.535	0.924	25.869	1.00 80.28	AP3
ATOM	3876			8	5.510	1.227	24.908	1.00 80.23	AP3
ATOM	3877		THR	8	6.440	1.913	27.020	1.00 80.18	AP3
ATOM	3878		THR	8	9.048	1.087	26.214	1.00 80.61	AP3
ATOM	3879		LYS	8 9	9.490	2.180	26.567	1.00 80.23	AP3
ATOM	3880	CA	LYS	9	9.527	-0.061	26.683	1.00 80.99	AP3
ATOM	3881	СВ	LYS	9	10.610	-0.062	27.656	1.00 81.53	AP3
ATOM	3882	CG	LYS	9	10.917 12.160	-1.493	28.130	1.00 81.32	AP3
ATOM	3883	CD	LYS	9	12.144	-1.594	29.023	1.00 81.21	AP3
MOTA	3884	CE	LYS	9	13.543	-2.839	29.918	1.00 81.53	AP3
ATOM	3885	NZ	LYS	9	14.162	-3.165 -2.051	30.484	1.00 81.08	AP3
MOTA	3886	С	LYS	9	11.860	0.579	31.270	1.00 80.56	AP3
ATOM	3887	0	LYS	9	12.609	1.287	27.041 27.715	1.00 81.86	AP3
MOTA	3888	N	ILE	10	12.075	0.334	25.753	1.00 82.11	AP3
MOTA	3889	CA	ILE	10	13.225	0.885	25.048	1.00 81.96	AP3
ATOM	3890	CB	ILE	10	13.390	0.203	23.654	1.00 81.82 1.00 81.28	AP3
ATOM	3891	CG2	_	10	14.375	0.966	22.795	1.00 81.28	AP3
ATOM	3892	CG1	ILE	10	13.783	-1.272	23.838	1.00 81.09	AP3
ATOM	3893	CD1	ILE	10	14.806	-1.554	24.964	1.00 81.30	AP3
ATOM	3894	C	ILE	10	13.093	2.401	24.871	1.00 82.11	AP3 AP3
ATOM	3895	0	ILE	10	14.082	3.136	24.999	1.00 81.77	AP3
MOTA	3896	N	ILE	11	11.867	2.849	24.589	1.00 82.41	AP3
ATOM	3897	CA	ILE	11	11.562	4.262	24.368	1.00 82.78	AP3
ATOM	3898	CB	ILE	11	10.186	4.426	23.670	1.00 82.33	AP3
MOTA MOTA	3899	CG2		11	9.797	5,896	23.575	1.00 82.07	AP3
ATOM	3900	CG1		11	10.255	3.827	22.270	1.00 82.32	AP3
ATOM	3901 3902		ILE	11	8.945	3.876	21.506	1.00 82.44	AP3
ATOM	3902	С 0	ILE	11	11.568	5.098	25.644	1.00 83.30	AP3
ATOM	3904	И	ILE VAL	11	11.935	6.269	25.620	1.00 83.45	AP3
ATOM	3905	CA	VAL	12 .	11.164	4.501	26.760	1.00 83.91	AP3
ATOM	3906	CB	VAL	12	11.127	5.227	28.019	1.00 84.43	AP3
MOTA	3907		VAL	12 12	10.158	4.540	29.031	1.00 84.31	AP3
ATOM	3908	CG2	VAL	12	10.373	5.070	30.435	1.00 84.17	AP3
ATOM	3909	C	VAL	12	8.724	4.811	28.623	1.00 84.03	AP3
MOTA	3910	Ö	VAL	12	12.520 12.701	5.340	28.619	1.00 84.94	AP3
MOTA	3911	N	ASP	13	13.513	5.944	29.678	1.00 85.35	AP3
ATOM	3912	CA	ASP	13	14.878	4.783 4.833	27.936	1.00 85.34	AP3
MOTA	3913	CB	ASP	13	15.334	3.420	28.454	1.00 86.04	AP3
ATOM	3914	CG	ASP	13	14.386	2.767	28.853 29.869	1.00 86.48	AP3
ATOM	3915	OD1		13	13.717	3.520		1.00 87.14	AP3
ATOM	3916	OD2		13	14.317	1.511	30.620 29.929	1.00 87.08	AP3
ATOM	3917	C	ASP	13	15.878	5.476	27.490	1.00 87.02 1.00 86.16	AP3
ATOM	3918	0	ASP	13	17.056	5.644	27.812		AP3
ATOM	3919	N	ARG	14	15.395	5.850	26.313	1.00 86.08	AP3
ATOM	3920	CA	ARG	14	16.233	6.481	25.313	1.00 86.23	AP3
ATOM	3921	CB	ARG	14	16.109	5.733	23.987	1.00 86.55	AP3 AP3
ATOM	3922		ARG	14	16.725	4.339	23.997	1.00 86.67	AP3
ATOM	3923		ARG	14	18.206	4.391	23.645	1.00 86.53	AP3
ATOM	3924		ARG	14	19.027	5.031	24.669	1.00 86.50	AP3
ATOM	3925	CZ	ARG	14	19.365	4.472	25.828	1.00 86.59	AP3
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MOTA	3926		1 ARG	14	18.960	3.245	26.142	1.00 86.74	
ATOM	3927		2 ARG	14	20.117	5.145	26.682	1.00 86.74	AP3
ATOM	3928		ARG	14	15.761	7.914	25.143	1.00 86.71	AP3
ATOM	3929		ARG	14	16.544	8.812	24.823	1.00 86.83	AP3
ATOM	3930		LEU	15	14.468	8.111	25.371	1.00 86.78	AP3
ATOM	3931		LEU	15	13.847	9.419	25.263	1.00 85.78	AP3
ATOM	3932		LEU	15	12.632	9.351	24.343	1.00 86.46	AP3
ATOM	3933		LEU	15	12.945	9.019	22.895	1.00 85.94	AP3
ATOM	3934		L LEU	15	11.689	9.228	22.079	1.00 86.10	AP3
ATOM	3935			15	14.064	9.913	22.386	1.00 85.45	AP3
ATOM	3936	_	LEU	15	13.421	9.930	26.634	1.00 87.71	AP3
ATOM	3937	_	LEU	15	13.111	11.111	26.798	1.00 87.66	AP3
ATOM	3938		GLY	16	13.401	9.028	27.609	1.00 88.38	AP3
ATOM	3939		GLY	16	13.024	9.387	28.962	1.00 89.57	AP3
ATOM	3940	C	GLY	16	11.685	10.083	29.141	1.00 90.52	AP3 AP3
ATOM	3941	0	GLY	16	11.634	11.185	29.686	1.00 90.64	
ATOM	3942	N	VAL	17	10.606	9.456	28.680	1.00 91.37	AP3 AP3
ATOM	3943	CA	VAL	17	9.260	10.011	28.830	1.00 92.27	AP3
ATOM	3944	CB	VAL	17	8.411	9.821	27.510	1.00 92.11	AP3
ATOM	3945		VAL	17	8.673	10.969	26.535	1.00 91.59	AP3
ATOM	3946	CG2		17	8.763	8.495	26.833	1.00 91.92	AP3
ATOM	3947	C	VAL	17	8.617	9.272	30.025	1.00 93.10	AP3
ATOM	3948	0	VAL	17	9.327	8.596	30.778	1.00 93.19	AP3
ATOM	3949	N	ASP	18	7.302	9.407	30.219	1.00 94.20	AP3
ATOM	3950	CA	ASP	18	6.603	8.720	31.325	1.00 95.26	AP3
ATOM ATOM	3951	CB	ASP	18	5.262	9.404	31.641	1.00 95.83	AP3
	3952	CG	ASP	18	5.430	10.780	32.271	1.00 96.39	AP3
ATOM	3953	OD1		18	6.051	10.865	33.360	1.00 96.57	AP3
ATOM	3954		ASP	18	4.936	11.774	31.679	1.00 96.48	AP3
ATOM	3955	C	ASP	18	6.331	7.258	30.951	1.00 95.69	AP3
ATOM ATOM	3956	0	ASP	18	7.187	6.389	31.122	1.00 96.20	AP3
ATOM	3957	N	GLU	19	5.122	6.990	30.469	1.00 95.81	AP3
ATOM	3958	CA	GLU	19	4.741	5.654	30.025	1.00 95.73	AP3
ATOM	3959 3960	CB	GLU	19	4.592	4.669	31.179	1.00 95.35	AP3
ATOM		CG	GLU	19	4.271	3.268	30.674	1.00 94.53	AP3
ATOM	3961 3962	CD	GLU	19	4.963	2.186	31.467	1.00 94.17	AP3
ATOM	3962 3963		GLU	19	6.103	2.413	31.924	1.00 93.98	AP3
ATOM	3964	OE2		19	4.374	1.100	31.617	1.00 93.93	AP3
ATOM	3965	C O	GLU	19	3.432	5.744	29.279	1.00 95.95	AP3
ATOM	3966	·И	GLU	19	3.344	5.344	28.120	1.00 96.20	AP3
ATOM			ALA	20	2.405	6.265	29.938	1.00 96.02	AP3
ATOM	3967 3968	CA CB	ALA ALA	20	1.123	6.407	29.269	1.00 96.23	AP3
ATOM	3969	c	ALA	20	0.082	6.948	30.227	1.00 96.45	AP3
ATOM	3970	0	ALA	20	1.361	7.383	28.123	1.00 96.14	AP3
ATOM	3971	И	ASP	20	0.504	7.580	27.255	1.00 96.23	AP3
ATOM	3972	CA	ASP	21	2.548	7.987	28.142	1.00 95.88	AP3
ATOM	3973	CB	ASP	21	2.972	8.934	27.120	1.00 95.67	AP3
ATOM	3974	CG	ASP	21	4.335	9.526	27.494	1.00 95.98	AP3
ATOM	3975	OD1		21	4.226	10.896	28.144	1.00 96.43	AP3
ATOM	3976	OD2		21	3.313	11.079	28.979	1.00 96.41	AP3
ATOM	3977		ASP	21	5.064	11.783	27.831	1.00 96.37	AP3
ATOM	3978		ASP	21	3.093	8.192	25.798	1.00 95.36	AP3
ATOM	3979		VAL	21 22	2.740	8.720	24.740	1.00 95.36	AP3
ATOM	3980		VAL	22	3.593	6.959	25.877	1.00 95.01	AP3
ATOM	3981		VAL	22 22	3.802	6.107	24.706	1.00 94.72	AP3
ATOM	3982	CG1		22	4.975	5.105	24.935	1.00 94.84	AP3
			٠,٠٠٠	22	5.062	4.115	23.777	1.00 94.84	AP3

MOTA	3983	CG2	VAL	22	6.294	5.861	25.076	1.00 95.01	AP3
MOTA	3984	C	VAL	22	2.580	5.297	24.301	1.00 94.29	AP3
ATOM	3985	0	VAL	22	2.334	4.225	24.843	1.00 94.13	AP3
ATOM	3986	N	LYS	23	1.822	5.815	23.343	1.00 94.07	AP3
ATOM	3987	CA	LYS	23	0.642	5.120	22.847	1.00 93.68	AP3
ATOM	3988	CB	LYS	23	-0.524	6.087	22.694	1.00 93.74	AP3
ATOM	3989	C	LYS	23	1.046	4.550	21.498	1.00 93.39	AP3
ATOM	3990	0	LYS	23	2.170	4.759	21.050	1.00 93.48	AP3
ATOM	3991	N	LEU	24	0.134	3.842	20.846	1.00 93.12	AP3
ATOM	3992	CA	LEU	24	0.438	3.233	19.557	1.00 92.79	AP3
ATOM	3993	CB	LEU	24	-0.584	2.123	19.247	1.00 92.55	AP3
ATOM	3994	CG	LEU	24	-0.066	0.793	18.668	1.00 92.42	AP3
ATOM	3995	CD1	LEU	24	0.765	0.040	19.714	1.00 91.85	AP3
ATOM	3996		LEU	24	-1.248	-0.060	18.216	1.00 92.20	AP3
ATOM	3997	C	LEU	24	0.489	4.239	18.405	1.00 92.49	AP3
ATOM	3998	0	LEU	24	1.330	4.135	17.522	1.00 92.33	AP3
ATOM	3999	N	GLU	25	-0.400	5.219	18.407	1.00 92.48	AP3
ATOM	4000	CA	GLU	25	-0.389	6.189	17.325	1.00 92.80	AP3
ATOM	4001	CB	GLU	25	-1.810	6.654	17.015	1.00 93.44	AP3
ATOM	4002	CG	GLU	25	-2.765	5.516	16.729	1.00 94.57	AP3
ATOM	4003	CD	GLU	25	-4.153	6.007	16.407	1.00 95.36	
ATOM	4004		GLU	25	-4.514	7.089	16.930		AP3
ATOM	4005		GLU	25	-4.879		<del>-</del>	1.00 95.95	AP3
ATOM	4006	C	GLU	25	0.493	5.311 7.391	15.650	1.00 95.66	AP3
ATOM	4007						17.655	1.00 92.51	AP3
		0	GLU	25	0.436	8.419	16.973	1.00 92.63	AP3
ATOM	4008	N	ALA	26	1.311	7.262	18.697	1.00 91.90	AP3
ATOM	4009	CA	ALA	26	2.200	8.346	19.093	1.00 91.28	AP3
ATOM	4010	СВ	ALA	26	2.729	8.101	20.505	1.00 90.92	AP3
ATOM	4011	C	ALA	26	3.360	8.459	18.100	1.00 91.07	AP3
ATOM	4012	.0	ALA	26	4.005	7.459	17.769	1.00 91.02	AP3
MOTA	4013	N	SER	27	3.602	9.674	17.605	1.00 90.75	AP3
MOTA	4014	CA	SER	27	4.702	9.924	16.666	1.00 90.16	AP3
MOTA	4015	CB	SER	27	4.460	11.190	15.826	1.00 90.40	AP3
ATOM	4016	OG	SER	27	5.623	11.544	15.080	1.00 90.09	AP3
MOTA	4017	С	SER	27	6.001	10.095	17.427	1.00 89.59	AP3
MOTA	4018	0	SER	27	6.040	10.694	18.501	1.00 89.05	AP3
MOTA	4019	И	PHE	28	7.069	9.566	16.857	1.00 89.40	AP3
MOTA	4020	CA	PHE	28	8.364	9.671	17.488	1.00 89.33	AP3
ATOM	4021	CB	PHE	28	9.377	8.800	16.740	1.00 88.83	AP3
MOTA	4022	CG	PHE	28	9.274	7.333	17.065	1.00 87.80	AP3
MOTA	4023		PHE	28 .	9.394	6.891	18.382	1.00 87.34	AP3
MOTA	4024	CD2	PHE	28	9.061	6.399	16.061	1.00 87.22	AP3
MOTA	4025	CE1	PHE	28	9.306	5.545	18.697	1.00 86.85	AP3
MOTA	4026	CE2	PHE	28	8.971	5.049	16.368	1.00 87.12	· AP3
MOTA	4027	CZ	PHE	28	9.095	4.624	17.693	1.00 86.87	AP3
ATOM	4028	C	PHE	28	8.835	11.121	17.543	1.00 89.67	AP3
MOTA	4029	0	PHE	28	9.341	11.566	18.573	1.00 89.45	AP3
MOTA	4030	N	LYS	29	8.652	11.865	16.451	1.00 90.18	AP3
ATOM	4031	CA	LYS	29	9.095	13.263	16.417	1.00 90.72	AP3
MOTA	4032	CB	LYS	29	9.453	13.681	14.986	1.00 90.81	AP3
MOTA	4033	CG	LYS	29	10.959	13.633	14.692	1.00 90.99	AP3
ATOM	4034	CD	LYS	29	11.237	13.776	13.195	1.00 91.39	AP3
ATOM	4035	CE	LYS	29	12.690	13.466	12.840	1.00 91.39	AP3
ATOM	4036	NZ	LYS	29	12.835	13.201	11.371	1.00 91.17	AP3
ATOM	4037	C	LYS	29	8.115	14.268	17.001	1.00 90.70	AP3
ATOM	4038	Ö	LYS	29	8.477	15.063	17.869	1.00 90.68	AP3
ATOM	4039	И	GLU	30	6.875	14.214	16.528	1.00 90.93	AP3
A1014	-033	74	310	30	0.075	17.214	10.340	2.00 30.33	

ATOM	4040	CA	GLU	30	5.820	15.131	16.961	1.00 90.95	AP3
ATOM	4041	CB	GLU	30	4.680	15.046	15.936	1.00 91.42	AP3
ATOM	4042	CG	GLU	30	5.175	15.444	14.528	1.00 93.07	AP3
ATOM	4043	CD	GLU	30	6.132	16.654	14.488	1.00 93.86	AP3
ATOM	4044	OE1	GLU	30	6.077	17.504	15.408	1.00 94.24	AP3
ATOM	4045	OE2	GLU	30	6.921	16.768	13.512	1.00 94.24	AP3
MOTA	4046	C	GLU	30	5.295	15.001	18.406	1.00 90.36	AP3
ATOM	4047	0	GLU	30	5.120	16.014	19.091	1.00 90.24	AP3
ATOM	4048	И	ASP	31	5.073	13.771	18.875	1.00 89.92	AP3
MOTA	4049	CA	ASP	31	4.547	13.519	20.232	1.00 89.32	· AP3
MOTA	4050	CB	ASP	31	3.481	12.396	20.207	1.00 89.62	AP3
ATOM	4051	CG	ASP	31	2.159	12.822	19.558	1.00 89.86	AP3
ATOM	4052		ASP	31	1.483	13.725	20.107	1.00 90.00	AP3
ATOM	4053	OD2		31	1.790	12.243	18.504	1.00 89.74	AP3
ATOM	4054	C	ASP	31	5.598	13.141	21.286	1.00 88.79	AP3
ATOM	4055	0	ASP	31	5.439	13.436	22.471	1.00 88.28	AP3
ATOM	4056	N	LEU	32	6.662	12.467	20.864	1.00 88.48	AP3
ATOM	4057	CA	LEU	32	7.696	12.039	21.808	1.00 88.08	AP3
ATOM	4058	CB	LEU	32	8.178	10.628	21.443	1.00 88.20	AP3
ATOM	4059	CG	LEU	32	7.092	9.545	21.393	1.00 88.29	AP3
ATOM	4060		LEU	32	7.714	8.208	21.024	1.00 88.43	AP3
ATOM	4061		LEU	32	6.399	9.453	22.747	1.00 88.22	AP3
ATOM	4062	С	LEU	32	8.886	13.002	21.878	1.00 87.67	AP3
ATOM	4063	0	LEU	32	9.632	13.015	22.877	1.00 87.89	AP3
MOTA	4064	N	GLY	33	9.059	13.793	20.816	1.00 86.61	AP3
ATOM	4065	CA	GLY	33	10.138	14.763	20.766	1.00 85.37	AP3
ATOM	4066	C	GLY	33	11.502	14.142	20.557	1.00 84.27	AP3
ATOM	4067	0	GLY	33	12.447	14.401	21.311	1.00 84.12	AP3
ATOM	4068	И	ALA	34	11.595	13.307	19.532	1.00 83.28	AP3
ATOM	4069	CA	ALA	34	12.843	12.649	19.198	1.00 82.21	AP3
ATOM	4070	СВ	ALA	34	12.614	11.151	18.992	1.00 81.82	AP3
ATOM	4071	C	ALA	34	13.410	13.279	17.933	1.00 81.35	AP3
MOTA MOTA	4072	0	ALA	34	12.691	13.478	16.953	1.00 81.03	AP3
ATOM	4073	N	ASP	35	14.698	13.606	17.971	1.00 80.45	AP3
ATOM	4074 4075	CA CB	ASP	35	15.348	14.198	16.818	1.00 79.95	AP3
ATOM	4076	CG	ASP ASP	35	16.295	15.343	17.224	1.00 79.22	AP3
ATOM	4077	OD1		35	17.324	14.928	18.258	1.00 79.03	AP3
ATOM	4078	OD2	ASP	35 35	17.556	13.710	18.421	1.00 78.87	AP3
ATOM	4079	C	ASP	35 35	17.914	15.829	18.902	1.00 78.65	AP3
ATOM	4080	0	ASP	35 35	16.117 16.163	13.146 11.983	16.049	1.00 79.63	AP3
ATOM	4081	CA	PAN	36			16.446		AP3
MOTA	4082	N	PAN	36	17.510 16.721	12.743 13.582	14.053	1.00 79.08	AP3
ATOM	4083	C	PAN	36	18.515	11.845	14.947	1.00 79.50 1.00 77.61	AP3
ATOM	4084	ō	PAN	36	18.825	10.763	14.766	1.00 77.61	AP3
MOTA	4085	05	PAN	36	17.274	14.569	14.288 12.565	1.00 77.16	AP3
ATOM	4086	P6	PAN	36	16.757	14.374		1.00 88.14	AP3
ATOM	4087	07	PAN	36	15.217	14.054	11.104 11.218	1.00 88.33	AP3
ATOM	4088	08	PAN	36	17.499	13.109	10.488	1.00 87.44	AP3
ATOM	4089	09	PAN	36	17.008	15.600	10.400	1.00 88.61	AP3
ATOM	4090	CB	PAN	36	18.231	13.636	13.050	1.00 88.81	AP3 AP3
ATOM	4091	N	LEU	37	19.032	12.297	15.902	1.00 76.08	AP3
ATOM	4092	CA	LEU	37	19.979	11.494	16.647	1.00 74.58	AP3
ATOM	4093	СВ	LEU	37	20.902	12.393	17.496	1.00 74.38	AP3
ATOM	4094	CG	LEU	37	22.259	12.393	18.031	1.00 73.85	AP3 AP3
ATOM	4095		LEU	37	22.125	11.862	19.393	1.00 72.85	AP3
ATOM	4096		LEU	37	22.841	10.874	17.044	1.00 72.39	AP3
					071	10.074	11.044	2.00 12.33	ME3

ATOM	4097	С	LEU	37	19.179	10.522	17.521	1.00	73.97	AP3
MOTA	4098	0	LEU	37	19.524	9.352	17.628	1.00	73.50	AP3
ATOM	4099	N	ASP	38	18.101	10.993	18.138	1.00	73.53	AP3
ATOM	4100	CA	ASP	38	17.301	10.098	18.970	1.00	72.79	AP3
ATOM	4101	CB	ASP	38	16.124	10.842	19.607	1.00	73.04	AP3
ATOM	4102	CG	ASP	38	16.481	11.464	20.962	1.00	73.81	AP3
ATOM	4103	OD1		38	15.731	12.358	21.431		73.99	AP3
MOTA	4104	OD2	ASP	38	17.504	11.055	21.572	1.00		AP3
ATOM	4105	C	ASP	38	16.799	8.959	18.094	1.00		AP3
ATOM	4106	0	ASP	38	16.909	7.787	18.460		71.86	AP3
ATOM	4107	N	VAL	39	16.287	9.300	16.919	1.00		AP3
ATOM	4108	CA	VAL	39	15.779	8.277	16.025	1.00	71.01	AP3
ATOM	4109	CB	VAL	39	15.220	8.869	14.664	1.00	71.24	AP3
ATOM	4110	CG1	VAL	39	16.325	9.539	13.844	1.00	71.90	AP3
ATOM	4111			39	14.602	7.764	13.839	1.00	71.08	AP3
ATOM	4112	C	VAL	39	16.793	7.170	15.739	1.00	70.58	AP3
ATOM	4113	0	VAL	39	16.450	5.996	15.879	1.00	70.63	AP3
ATOM	4114	N	VAL	40	18.034	7.491	15.369	1.00		AP3
ATOM	4115	CA	VAL	40	18.956	6.386	15.087	1.00		AP3
ATOM	4116	CB	VAL	40	20.255	6.798	14.328	1.00	69.09	AP3
ATOM	4117	CG1		40	20.024	8.040	13.501	1.00	68.25	AP3
ATOM	4118	CG2		40	21.398	6.934	15.286	1.00	68.70	AP3
ATOM	4119	C	VAL	40	19.355	5.609	16.330	1.00		AP3
ATOM	4120	0	VAL	40	19.632	4.419	16.236	1.00	69.52	AP3
ATOM	4121	N	GLU	41	19.394	6.251	17.494	1.00		AP3
ATOM	4122	CA	GLU	41	19.750	5.501	18.691	1.00		AP3
ATOM	4123	СВ	GLU	41	20.063	6.413	19.881	1.00		AP3
ATOM	4124	CG	GLU	41	20.212	5.583	21.164	1.00		AP3
ATOM	4125	CD	GLU	41	20.933	6.295	22.307	1.00		AP3
ATOM	4126		GLU	41	20.488	7.410	22.704	1.00		AP3
ATOM ATOM	4127		GLU	41	21.938	5.723	22.815	1.00		AP3
ATOM	4128 4129	С 0	GLU	41	18.569	4.574	19.029		71.15	AP3
ATOM	4130	N	GLU LEU	41 42	18.753	3.453	19.535	1.00		AP3
ATOM	4131	CA	LEU	42	17.366 16.132	5.053	18.718	1.00		AP3
ATOM	4132	CB	LEU	42		4.309	18.947	1.00		AP3
ATOM	4133	CG	LEU	42	14.937	5.219	18.664	1.00		AP3
ATOM	4134		LEU	42	13.790		19.661	1.00		AP3
ATOM	4135		LEU	42	14.294	5.398	21.072		70.26	AP3
ATOM	4136	CD2	LEU	42	12.735 16.081	6.126 3.076	19.280 18.033	1.00	69.20	AP3
ATOM	4137	0	LEU	42	15.799	1.969	18.480	1.00		AP3 AP3
ATOM	4138	N	VAL	43	16.352	3.287	16.751	1.00		AP3
ATOM	4139	CA	VAL	43	16.371	2.211	15.783	1.00		AP3
ATOM	4140	СВ	VAL	43	16.651	2.761	14.361	1.00		AP3
ATOM	4141		VAL	43	17.349	1.716	13.520	1.00		AP3
ATOM	4142		VAL	43	15.357	3.167	13.691		67.66	AP3
ATOM	4143	C	VAL	43	17.434	1.161	16.136		68.96	AP3
ATOM	4144	ō	VAL	43	17.221	-0.025	15.965		69.09	AP3
ATOM	4145	N	MET	44	18.584	1.584	16.634		69.75	AP3
ATOM	4146	CA	MET	44	19.624	0.616	16.954		70.62	AP3
ATOM	4147	СВ	MET	44	20.955	1.333	17.165		70.97	AP3
ATOM	4148	CG	MET	44	21.520	1.984	15.900		70.88	AP3
ATOM	4149	SD	MET	44	23.026	2.871	16.329		71.36	AP3
ATOM	4150	CE	MET	44	24.138	1.540	16.501		71.46	AP3
ATOM	4151	C	MET	44	19.267	-0.219	18.171		70.87	AP3
ATOM	4152	0	MET	44	19.633	-1.377	18.281		70.84	AP3
ATOM	4153	N	GLU	45	18.550	0.374	19.098		71.61	AP3

MOTA	4154	CA	GLU	45	18.148	-0.364	20.265	1.00 72.72	
MOTA	4155	CB	GLU	45	17.465	0.574	21.241	1.00 72.72	AP3
MOTA	4156	CG	GLU	45	17.616	0.132	22.660	1.00 74.12	AP3
ATOM	4157	CD	GLU	45	18.162	1.241	23.512	1.00 78.21	AP3
ATOM	4158		L GLU	45	19.158	1.860	23.070	1.00 79.78	AP3
ATOM	4159	OE:	GLU	45	17.607	1.494	24.609	1.00 79.78	AP3
MOTA	4160	C	GLU	45	17.176	-1.470	19.830	1.00 78.32	AP3
MOTA	4161	0	GLU	45	17.188	-2.579	20.368	1.00 72.48	AP3
ATOM	4162	N	LEU	46	16.332	-1.148	18.856	1.00 72.22	. AP3
ATOM	4163	CA	LEU	46	15.369	-2.101	18.338	1.00 72.56	AP3
ATOM	4164	CB	LEU	46	14.345	-1.402	17.434	1.00 71.96	AP3
MOTA	4165	CG	LEU	46	13.399	-0.406	18.112	1.00 71.81	AP3
MOTA	4166	CD1	LEU	46	12.653	0.403	17.061	1.00 71.44	AP3
ATOM	4167	CD2	LEU	46	12.434	-1.141	19.030	1.00 71.22	AP3
ATOM	4168	C	LEU	46	16.145	-3.137	17.538	1.00 73.07	AP3
ATOM	4169	0	LEU	46	15.716	-4.281	17.407	1.00 73.07	AP3
ATOM	4170	N	GLU	47	17.288	-2.726	16.996	1.00 73.17	AP3
MOTA	4171	CA	GLU	47	18.127	-3.638	16.233	1.00 74.04	AP3
ATOM	4172	CB	GLU	47	19.261	-2.932	15.466	1.00 73.93	AP3
ATOM	4173	CG	GLU	47	18.998	-2.437	14.043	1.00 20.00	AP3
ATOM	4174	CD	GLU	47	20.090	-1.830	13.191	1.00 20.00	AP3
MOTA	4175	OE1	GLU	47	21.243	-1.687	13.573	1.00 20.00	AP3
MOTA	4176	OE2	GLU	47	19.767	-1.801	12.004	1.00 20.00	AP3
ATOM	4177	С	GLU	47	18.578	-4.672	17.245	1.00 74.60	AP3
ATOM	4178	0	GLU	47	18.464	-5.862	17.025	1.00 74.60	AP3
ATOM	4179	N	ASP	48	19.077	-4.191	18.373	1.00 74.69	AP3
ATOM	4180	CA	ASP	48	19.559	-5.051	19.446	1.00 75.61	AP3
ATOM	4181	CB	ASP	48	20.135	-4.162	20.574	1.00 76.55	AP3
MOTA	4182	CG	ASP	48	21.552	-4.573	21.002	1.00 76.32	AP3
ATOM	4183	OD1	ASP	48	22.385	-4.922	20.131	1.00 76.48	AP3
MOTA	4184	OD2	ASP	48	21.840	-4.527	22.221	1.00 76.48	AP3
ATOM	4185	C	ASP	48	18.431	-5.969	19.981	1.00 77.22	AP3
ATOM	4186	0	ASP	48	18.467	-7.186	19.792	1.00 77.42	AP3 AP3
MOTA	4187	N	GLU	49	17.427	-5.373	20.623	1.00 77.74	AP3
ATOM	4188	CA	GLU	49	16.305	-6.110	21.216	1.00 78.13	AP3
MOTA	4189	CB	GLU	49	15.181	-5.135	21.601	1.00 78.45	AP3
ATOM	4190	CG	GLU	49	14.040	-5.768	22.413	1.00 78.97	AP3
ATOM	4191	CD	GLU	49	14.522	-6.426	23.708	1.00 79.44	AP3
ATOM	4192	OEl	GLU	49	15.314	-5.805	24.456	1.00 79.86	· AP3
MOTA	4193	OE2	GLU	49	14.103	-7.565	23.986	1.00 79.37	AP3
MOTA	4194	C	GLU	49	15.702	-7.248	20.394	1.00 78.17	AP3
MOTA	4195	0	GLU	49	15.764	-8.406	20.794	1.00 78.04	AP3
MOTA	4196	N	PHE	50	15.112	-6.899	19.258	1.00 78.28	AP3
ATOM	4197	CA	PHE	50	14.457	-7.854	18.378	1.00 78.51	AP3
ATOM	4198	CB	PHE	50	13.297	-7.153	17.675	1.00 78.05	AP3
ATOM	4199	CG	PHE	50	12.305	-6.526	18.616	1.00 77.86	AP3
ATOM	4200	CD1	PHE	50	11.336	-7.298	19.249	1.00 77.75	AP3
ATOM	4201	CD2	PHE	50	12.349	-5.166	18.884	1.00 77.65	AP3
ATOM	4202	CE1	PHE	50	10.429	-6.727	20.134	1.00 77.49	AP3
MOTA	4203	CE2	PHE	50	11.446	-4.588	19.767	1.00 77.81	AP3
ATOM	4204	CZ	PHE	50	10.483.	-5.374	20.393	1.00 77.71	AP3
ATOM	4205	С	PHE	50	15.390	-8.485	17.338	1.00 77.71	AP3
ATOM	4206	0	PHE	50	14.962	-9.268	16.482	1.00 79.08	AP3
ATOM	4207	N	ASP	51	16.666	-8.141	17.406	1.00 79.94	AP3
ATOM	4208	CA	ASP	51	17.650	-8.677	16.469	1.00 79.94	AP3
ATOM	4209	CB	ASP	51	17.937		16.782	1.00 80.87	AP3
ATOM	4210	CG	ASP	51	19.097		15.970	1.00 82.44	AP3
				· <del></del>	,	20.003	13.370	2.00 02.44	AFS

MOTA	4211	OD1	ASP	51	20.252	-10.277	16.260	1.00 82.50	AP3
MOTA	4212	OD2	ASP	51	18.856	-11.499	15.041	1.00 82.89	AP3
MOTA	4213	С	ASP	51	17.319	-8.568	14.978	1.00 81.25	AP3
MOTA	4214	0	ASP	51	17.156	-9.580	14.299	1.00 81.47	AP3
MOTA	4215	N	MET	52	17.212	-7.350	14.462	1.00 81.48	AP3
MOTA	4216	CA	MET	52	16.957	-7.173	13.040	1.00 82.01	AP3
ATOM	4217	CB	MET	52	15.510	-6.750	12.775	1.00 82.14	AP3
ATOM	4218	CG	MET	52	14.696	-6.381	14.007	1.00 82.31	AP3
ATOM	4219	SD	MET	52	13.071	-5.722	13.542	1.00 82.25	AP3
ATOM	4220	CE	MET	52	12.014	-7.194	13.718	1.00 82.26	AP3
ATOM	4221 4222	C	MET	52	17.926	-6.121	12.519	1.00 82.34	AP3
ATOM ATOM	4222	и О	MET GLU	52	18.885	-5.763	13.209	1.00 82.16	AP3
ATOM	4224		GLU	53	17.702	-5.627	11.308	1.00 82.90	AP3
ATOM	4225	CA CB	GLU	53 53	18.610 19.123	-4.614 -5.031	10.779	1.00 83.60	AP3
ATOM	4226	CG	GLU	53 53	20.382	-5.919	9.393	1.00 84.21	AP3
ATOM	4227	CD	GLU	<b>C</b> 3	20.382	-6.458	9.461 8.097	1.00 85.24 1.00 85.76	AP3
ATOM	4228		GLU	53 53	21.136	-5.656	7.182	1.00 85.78	AP3 AP3
ATOM	4229	OE2		53	20.899	-7.696	7.942	1.00 86.03	AP3
ATOM	4230	C	GLU	53	17.612	-3.738	10.000	1.00 83.76	AP3
ATOM	4231	ō	GLU	53	16.959	-4.220	9.060	1.00 84.12	AP3
ATOM	4232	N	ILE	54	17.503	-2.461	10.362	1.00 83.35	AP3
ATOM	4233	CA	ILE	54	16.552	-1.545	9.704	1.00 82.72	AP3
MOTA	4234	CB	ILE	54	16.164	-0.927	11.074	1.00 82.40	AP3
ATOM	4235	CG2	ILE	54	15.129	0.174	10.882	1.00 82.02	AP3
MOTA	4236	CG1		54	15.556	-1.994	11.975	1.00 82.36	AP3
ATOM	4237	CD1	ILE	54	15.194	-1.481	13.334	1.00 82.18	AP3
ATOM	4238	C	ILE	54	17.561	-0.609	9.007	1.00 82.25	AP3
ATOM	4239	0	ILE	54	18.456	-0.037	9.633	1.00 81.65	AP3
MOTA	4240	И	SER	55	17.408	-0.482	7.693	1.00 81.94	AP3
MOTA	4241	CA	SER	55	18.277	0.359	6.884	1.00 81.54	AP3
ATOM	4242	CB	SER	55	18.019	0.082	5.399	1.00 80.92	AP3
ATOM	4243	OG	SER	55	16.645	0.198	5.090	1.00 79.92	AP3
ATOM	4244	С	SER	55	18.010	1.824	7.202	1.00 81.54	AP3
ATOM	4245	0	SER	55	17.098	2.137	7.970	1.00 81.30	AP3
ATOM	4246	N	ASP	56	18.798	2.724	6.618	1.00 81.47	AP3
ATOM	4247	CA	ASP	56	18.590	4.145	6.872	1.00 81.81	AP3
ATOM	4248	CB	ASP	56	19.683	5.001	6.193	1.00 81.44	AP3
ATOM	4249	CG	ASP	56	21.040	4.968	6.948	1.00 81.79	AP3
ATOM ATOM	4250 4251	OD1	asp asp	56	21.046	4.792	8.192	1.00 81.20	AP3
ATOM	4251	C	ASP	56 56	22.105 17.193	5.147 <sup>-</sup> 4.522	6.298 6.353	1.00 81.38 1.00 82.06	AP3 AP3
ATOM	4253	0	ASP	56	16.468	5.310	6.971	1.00 82.08	AP3
ATOM	4254	И	GLU	5 <del>7</del>	16.812	3.922	5.231	1.00 82.50	AP3
ATOM	4255	CA	GLU	57	15.519	4.181	4.617	1.00 83.23	AP3
ATOM	4256	CB	GLU	5 <i>7</i>	15.489	3.600	3.212	1.00 83.97	AP3
ATOM	4257	CG	GLU	57	14.093	3.344	2.663	1.00 85.29	AP3
ATOM	4258	CD	GLU	57	14.151	2.565	1.360	1.00 86.35	AP3
ATOM	4259		GLU	57	14.973	1.619	1.297	1.00 86.59	AP3
ATOM	4260		GLU	57	13.388	2.891	0.414	1.00 86.49	AP3
ATOM	4261	C	GLU	57	14.389	3.582	5.410	1.00 83.25	AP3
ATOM	4262	ō	GLU	57	13.307	4.140	5.485	1.00 83.37	AP3
ATOM	4263	N	ASP	58	14.645	2.419	5.977	1.00 83.61	AP3
ATOM	4264	CA	ASP	58	13.643	1.733	6.762	1.00 84.08	AP3
ATOM	4265	CB	ASP	58	14.221	0.420	7.298	1.00 84.48	AP3
ATOM	4266	CG	ASP	58	13.920	-0.757	6.399	1.00 84.79	AP3
ATOM	4267	OD1	ASP	58	13.894	-0.578	5.161	1.00 84.94	AP3
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MOTA	4268	OD2	ASP	58	13.718	-1.866	6.937	1.00 85.28	AP3
MOTA	4269	C	ASP	58	13.161	2.594	7.916	1.00 84.20	AP3
MOTA	4270	0	ASP	58	11.956	2.768	8.106	1.00 84.18	AP3
MOTA	4271	N	ALA	59	14.110	3.127	8.682	1.00 84.44	AP3
MOTA	4272	CA	ALA	59	13.800	3.947	9.847	1.00 84.80	AP3
MOTA	4273	CB	ALA	59	15.090	4.324	10.576	1.00 84.94	· AP3
ATOM	4274	C	ALA	59	13.012	5.196	9.490	1.00 85.16	AP3
MOTA	4275	0	ALA	59	12.270	5.733	10.320	1.00 84.92	AP3
ATOM	4276	N	GLU	60	13.179	5.649	8.251	1.00 85.66	AP3
MOTA	4277	CA	GLU	60	12.491	6.829	7.756	1.00 86.22	AP3
MOTA	4278	CB	GLU	60 -	13.172	7.307	6.472	1.00 86.31	AP3
ATOM ATOM	4279	CG	GLU	60	12.273	7.576	5.288	1.00 86.31	AP3
	4280	CD	GLU	60	13.066	8.014	4.068	1.00 86.35	AP3
ATOM	4281		GLU	60	13.683	9.096	4.127	1.00 86.38	AP3
ATOM ATOM	4282 4283	OE2 C		.60	13.086	7.277	3.056	1.00 86.60	AP3
ATOM	4284	0	GLU	60	11.011	6.543	7.528	1.00 86.77	AP3
ATOM	4284	И	GLU LYS	60	10.228	7.453	7.250	1.00 87.01	AP3
ATOM	4286	CA	LYS	61 61	10.623	5.277	7.653	1.00 87.25	AP3
ATOM	4287	CB	LYS	61	9.220 9.074	4.909	7.488	1.00 87.61	AP3
ATOM	4288	CG	LYS	61	7.624	3.593 3.104	6.731 6.665	1.00 88.37	AP3
ATOM	4289	CD	LYS	61	7.551	1.686		1.00 89.43	AP3
ATOM	4290	CE	LYS	61	6.127	1.165	6.112 6.055	1.00 90.13 1.00 90.43	AP3
ATOM	4291	NZ	LYS	61	6.108	-0.219	5.489		AP3
ATOM	4292	C	LYS	61	8.503	4.778	8.830	1.00 90.66 1.00 87.34	AP3
ATOM	4293	o	LYS	61	7.396	5.299	8.987	1.00 87.34	AP3 AP3
ATOM	4294	N	ILE	62	9.122	4.090	9.791	1.00 87.10	AP3
ATOM	4295	CA	ILE	62	8.488	3.909	11.094	1.00 86.92	AP3
ATOM	4296	СВ	ILE	62	9.281	2.898	11.997	1.00 86.84	· AP3
ATOM	4297	CG2	ILE	62	9.711	1.698	11.164	1.00 86.77	AP3
ATOM	4298	CG1	ILE	62	10.516	3.547	12.621	1.00 86.82	AP3
ATOM	4299	CD1		62	11.170	2.683	13.670	1.00 86.27	AP3
ATOM	4300	C	ILE	62	8.285	5.258	11.802	1.00 86.84	AP3
ATOM	4301	0	ILE	62	9.041	5.659	12.698	1.00 86.83	AP3
MOTA	4302	N	ALA	63	7.228	5.941	11.373	1.00 86.40	AP3
MOTA	4303	CA	ALA	63	6.847	7.255	11.876	1.00 85.95	AP3
ATOM	4304	CB	ALA	63	5.758	7.850	10.975	1.00 86.18	AP3
MOTA	4305	C	ALA	63	6.376	7.268	13.323	1.00 85.54	AP3
ATOM	4306	0	ALA	63	6.790	8.124	14.109	1.00 85.58	AP3
MOTA	4307	N	THR	64	5.494	6.335	13.670	1.00 84.92	AP3
MOTA	4308	CA	THR	64	4.977	6.272	15.033	1.00 84.10	AP3
MOTA	4309	CB	THR	64	3.462	6.508	15.069	1.00 84.08	AP3
MOTA	4310	0G1	THR	64	2.779	5.266	14.876	1.00 84.50	AP3
MOTA	4311	CG2		64	3.052	7.468	13.959	1.00 84.49	AP3
ATOM	4312	C	THR	64	5.279	4.911	15.638	1.00 83.31	AP3
MOTA	4313	0	THR	64	5.930	4.074	15.008	1.00 83.15	AP3
MOTA	4314	N	VAL	65	4.797	4.697	16.858	1.00 82.39	AP3
MOTA	4315	CA	VAL	65	5.026	3.441	17.567	1.00 81.57	AP3
MOTA	4316	CB	VAL	65	4.426	3.504	18.998	1.00 81.36	AP3
MOTA	4317		VAL	65	4.872	2.300	19.806	1.00 81.23	AP3
ATOM	4318		VAL	65	4.856	4.790	19.687	1.00 81.01	AP3
MOTA	4319	C	VAL	65	4.435	2.246	16.807	1.00 81.21	AP3
MOTA	4320	0	VAL	65	5.159	1.333	16.406	1.00 80.81	AP3
MOTA	4321	N	GLY	66	3.118	2.270	16.603	1.00 80.94	AP3
MOTA	4322	CA	GLY	66	2.440	1.198	15.887	1.00 80:21	AP3
MOTA	4323	C	GLY	66	3.238	0.690	14.702	1.00 79.61	AP3
MOTA	4324	0	GLY	66	3.559	-0.492	14.644	1.00 80.05	AP3

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MOTA	4325	N	ASP	67	3.560	1.586	13.768	1.00 78.67	AP3
ATOM	4326	CA	ASP	67	4.334	1.250	12.577	1.00 77.46	AP3
ATOM	4327	CB	ASP	67	4.810	2.527	11.866	1.00 78.12	AP3
ATOM	4328	CG	ASP	67	3.663	3.435	11.426	1.00 78.60	AP3
ATOM	4329	OD1		67	3.948	4.595	11.038	1.00 78.50	AP3
ATOM	4330		ASP	67	2.484	2.998	11.460	1.00 79.03	AP3
ATOM	4331	C	ASP	67	5.553	0.427	12.966	1.00 76.39	AP3
ATOM	4332	0	ASP	67	5.847	-0.586	12.349	1.00 76.25	AP3
ATOM	4333	N	ALA	68	6.265	0.875	13.992	1.00 75.14	AP3
ATOM ATOM	4334	CA	ALA	68	7.461	0.177	14.443	1.00 74.09	AP3
ATOM	4335 4336	CB	ALA	68	8.127	0.958	15.557	1.00 73.75	AP3
ATOM	4337	0	ALA ALA	68 68	7.126	-1.231	14.923	1.00 73.41	AP3
ATOM	4338	N	VAL	69	7.901 5.977	-2.178	14.722	1.00 72.94	AP3
ATOM	4339	CA	VAL	69		-1.353	15.583	1.00 72.59	AP3
ATOM	4340	CB	VAL	69	5.516 4.233	-2.640 -2.496	16.078	1.00 71.94	AP3
ATOM	4341		VAL	69	3.613	-3.860	16.913	1.00 71.70	AP3
ATOM	4342	CG2	VAL	69	4.550	-1.867	17.128 18.264	1.00 72.09	AP3
ATOM	4343	C	VAL	69	5.235	-3.533	14.874	1.00 71.85	AP3
ATOM	4344	ō	VAL	69	5.670	-4.677	14.834	1.00 71.56 1.00 71.28	AP3
ATOM	4345	N	ASN	70	4.536	-2.977	13.888	1.00 71.28	AP3
ATOM	4346	CA	ASN	70	4.173	-3.684	12.670	1.00 71.50	AP3 AP3
ATOM	4347	CB	ASN	70	3.286	-2.806	11.784	1.00 72.56	AP3
ATOM	4348	CG	ASN	70	1.985	-2.388	12.481	1.00 74.31	AP3
MOTA	4349	OD1	ASN	70	1.333	-3.194	13.183	1.00 74.53	AP3
ATOM	4350	ND2	ASN	70	1.591	-1.124	12.279	1.00 74.65	AP3
MOTA	4351	C	ASN	70	5.365	-4.164	11.864	1.00 70.88	AP3
MOTA	4352	0	asn	70	5.292	-5.213	11.226	1.00 71.14	AP3
MOTA	4353	N	TYR	71	6.457	-3.405	11.887	1.00 69.74	AP3
ATOM	4354	CA	TYR	71	7.656	-3.775	11.148	1.00 68.50	AP3
ATOM	4355	CB	TYR	71	8:579	-2.564	10.985	1.00 68.49	AP3
ATOM	4356	CG	TYR	71	9.941	-2.875	10.408	1.00 68.25	AP3
ATOM	4357	CD1		71	10.983	-3.316	11.223	1.00 68.37	AP3
ATOM	4358	CE1	TYR	71	12.246	-3.579	10.700	1.00 68.50	AP3
ATOM	4359	CD2	TYR	71	10.195	-2.709	9.048	1.00 68.69	AP3
ATOM ATOM	4360 4361	CE2	TYR	71	11.452	-2.968	8.512	1.00 68.85	AP3
ATOM	4362	CZ OH	TYR	71	12.476	-3.397	9.342	1.00 68.83	AP3
ATOM	4363	C	TYR TYR	71 71	13.740	-3.604	8.823	1.00 68.91	AP3
ATOM	4364	0	TYR	71	8.381 9.000	-4.890	11.876	1.00 67.81	AP3
ATOM	4365	N	ILE	72	8.307	-5.753 -4.867	11.250 13.201	1.00 67.59 1.00 66.78	AP3
ATOM	4366	CA	ILE	72	8.952	-5.895	14.004	1.00 66.16	AP3 AP3
ATOM	4367	СВ	ILE	72	8.971	-5.479	15.475	1.00 65.95	AP3
ATOM	4368		ILE	72	9.601	-6.577	16.323	1.00 65.37	·AP3
ATOM	4369		ILE	72	9.738	-4.161	15.605	1.00 65.65	AP3
ATOM	4370		ILE	72	9.745	-3.580	16.986	1.00 65.29	AP3
ATOM	4371	C	ILE	72	8.254	-7.259	13.831	1.00 65.87	AP3
ATOM	4372	0	ILE	72	8.826	-8.301	14.112	1.00 65.61	AP3
ATOM	4373	N	GLN	73	7.015	-7.235	13.361	1.00 65.77	AP3
MOTA	4374	CA	GLN	73	6.263	-8.454	13.096	1.00 66.13	AP3
MOTA	4375	CB	GLN	73	4.798	-8.278	13.581	1.00 65.55	AP3
ATOM	4376	CG	GLN	73	4.647	-7.843	15.063	1.00 64.13	AP3
ATOM	4377	CD	GLN	73	3.220	-7.421	15.452	1.00 64.08	AP3
ATOM	4378	OE1	GLN	73	2.478	-6.865	14.644	1.00 63.85	AP3
ATOM	4379	NE2	GLN	73	2.847	-7.663	16.704	1.00 63.21	AP3
ATOM	4380	C	GLN	73	6.332	-8.670	11.555	1.00 66.46	AP3
ATOM	4381	OT1	GLN	73	7.311	-9.301	11.073	1.00 66.98	AP3

ATOM	4382	OT2	GLN	73	5.443	-8.169	10.822	1.00 66.91	AP3
ATOM	4383	Na	Na	74	20.764	19.142	15.649	1.00 20.00	AP3
ATOM	4384	Cl	Cl	75	48.270	38.501	33.120	1.00 20.00	AP3
ATOM	4385	0	HOH	1	20.971	35.418	19.446	1.00 28.08	W
ATOM	4386	0	HOH	3	17.476	26.774	26.314	1.00 30.37	W
ATOM	4387	0	HOH	4	12.070	27.791	30.387	1.00 43.18	W
ATOM	4388	0	HOH	6	-0.243	36.108	7.284	1.00 29.98	W
MOTA	4389	0	HOH	7	0.953	30.812	3.352	1.00 25.95	W
ATOM	4390	0	нон	8	4.210	27.477	6.553	1.00 39.30	W
ATOM	4391	0	HOH	9	0.717	18.079	16.564	1.00 67.04	W
ATOM	4392	0	нон	11	15.048	43.095	-2.130	1.00 39.40	W
ATOM	4393	0	HOH	12	17.559	22.506	6.739	1.00 26.96	W
ATOM	4394	0	HOH	13	12.217	24.755	13.778	1.00 46.52	W
ATOM	4395	0	нон	15	35.287	26.338	18.440	1.00 20.30	W
ATOM	4396	0	нон	17	18.594	25.738	2.095	1.00 35.11	W
ATOM	4397	0	нон	18	15.737	27.004	1.792	1.00 44.57	W
ATOM	4398	0	нон	19	17.787	25.982	-0.493	1.00 47.08	W
ATOM	4399	0	нон	20	14.655	29.401	1.057	1.00 29.13	W
ATOM	4400	0	нон	22	10.016	35.007	-1.744	1.00 28.29	W
ATOM	4401	0	нон	23	36.914	24.143	16.155	1.00 45.82	W
ATOM	4402	0	нон	25	50.466	41.898	3.162	1.00 51.46	W
ATOM	4403	0	нон	30	37.884	38.482	31.771	1.00 44.83	W
ATOM	4404	0	нон	33	2.929	18.357	18.770	1.00 39.37	W
ATOM	4405	0	HOH	35	36.000	25.296	5.752	1.00 51.16	W
ATOM ATOM	4406	0	НОН	36	36.246	24.282	8.528	1.00 26.38	W
	4407	0	HOH	37	28,425	33.179	30.115	1.00 38.91	W
ATOM ATOM	4408 4409	0	нон	41	21.454	21.279	24.073	1.00 42.35	W
ATOM	4410	0	нон	43	32:713	18.758	19.974	1.00 39.89	W
ATOM	4411	0	HOH	45	27.158	17.997	25.229	1.00 42.25	W
ATOM	4412	0	HOH HOH	47 48	15.063	24.776	27.152	1.00 51.90	W
ATOM	4413	0	нон	50	3.825 20.567	36.800 27.887	4.340 27.820	1.00 34.80 1.00 55.40	W
ATOM	4414	0	нон	50 51	4.233	27.038	25.001	1.00 35.40	W W
ATOM	4415	Ö	нон	52	29.473	30.435	6.152	1.00 48.58	W
ATOM	4416	Ö	нон	53	35.273	26.999	22.829	1.00 30.54	w
ATOM	4417	ŏ	нон	55	42.995	43.869	7.601	1.00 20.03	w
ATOM	4418	Ö	нон	56	44.770	43.791	9.728	1.00 34.30	w
ATOM	4419	ŏ	нон	57	16.116	25.445	30.290	1.00 58.80	w
ATOM	4420	ō	нон	5 <i>.</i> 58	0.147	32.556	5.561	1.00 35.33	w
ATOM	4421	ŏ	нон	59	-0.841	26.194	8.298	1.00 52.99	w
ATOM	4422	ŏ	нон	60	10.370	26.637	13.493	1.00 36.98	W
ATOM	4423	o	нон	61	8.214	23.987	10.644	1.00 40.29	W
ATOM	4424	Ö	нон	62	7.673	46.913	8.463	1.00 47.90	. M
ATOM	4425	o	нон	63	4.946	41.758	13.539	1.00 40.09	W
ATOM	4426	o	нон	64	2.008	26.400	4.288	1.00 44.86	₩ .
MOTA	4427	0	нон	65	32.337	32.228	-5.705	1.00 32.42	W
ATOM	4428	0	HOH	66	27.158	29.103	4.575	1.00 46.49	W
ATOM	4429	0	нон	67	51.087	34.911	10.070	1.00 39.28	W
MOTA.	4430	0	HOH	68	32.466	40.888	5.401	1.00 33.93	W
ATOM	4431	0	HOH	69	39.494	41.762	2.408	1.00 58.71	W
MOTA	4432	0	нон	70	38.446	9.804	5.548	1.00 44.19	W
ATOM	4433	0	нон	71	37.802	15.483	14.333	1.00 53.16	W
ATOM	4434	0	нон	72	36.104	17.125	13.465	1.00 49.31	, <b>W</b>
ATOM	4435	0	HOH	73	35.093	14.562	11.995	1.00 37.15	W
MOTA	4436	0	HOH	74	39.249	13.856	9.700	1.00 43.73	W
MOTA	4437	0	HOH	75	40.786	20.731	-0.083	1.09 41.60	W
ATOM	4438	0	HOH	76	42.538	13.280	2.142	1.00 53.85	W

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ATOM	4439		нон	77	43.889	24.163	2.388	1 00	37.18	••
ATOM	4440		HOH	79	2.540				52.66	W
ATOM	4441		HOH	80	43.300				44.05	W
ATOM	4442		нон	81	30.076				41.35	w W
ATOM	4443		нон	82	0.554	36.258			53.47	W
ATOM	4444		нон	83	42.781	28.492			51.06	w
ATOM	4445		HOH	84	17.785	20.002			47.01	w
ATOM	4446		нон	85	57.006	35.947	12.705		61.42	w
ATOM	4447		нон	86	35.408	25.621	2.707		51.93	w
ATOM ATOM	4448	_	нон	87	26.037	26.711	5.073		55.68	w
ATOM	4449		нон	88	-0.037	36.618	11.554		62.51	w
ATOM	4450 4451	_	нон	89	18.549	21.897			57.85	W
ATOM	4452	0	нон	90	35.373	45.010		1.00	44.09	W
ATOM	4453	0	HOH	91	43.922	17.170		1.00	54.42	W
ATOM	4454	0	HOH	92	7.281	53.078			54.35	W
ATOM	4455	0	HOH	93	36.648	-0.702		1.00	47.55	W
ATOM	4456	0	нон Нон	94	24.724	39.269			53.05	W
ATOM	4457	Ö	нон	95 06	19.529	33.965			58.72	W
ATOM	4458	Ö	нон	96	25.749	39.500			57.45	W
ATOM	4459	Ö	нон	98 99	2.556	39.351	3.903		60.67	W
ATOM	4460	ŏ	нон	100	4.962	24.357	5.423		50.93	W
ATOM	4461	Ö	нон	101	52.895	36.138	12.412		58.46	W
ATOM	4462	ō	нон	102	29.825	40.539	5.862		49.27	W
ATOM	4463	ō	нон	103	21.479 17.766	17.255	17.560		57.74	W
ATOM	4464	ō	нон	104	1.919	38.296	19.527		57.08	W
ATOM	4465	ō	нон	105	45.650	40.589	25.467		69.59	W
ATOM	4466	ō	нон	106	39.326	16.023 28.368	1.737		68.18	W
ATOM	4467	0	нон	107	3.591		32.930		53.77	W
ATOM	4468	0	нон	108	33.929	33.811 42.844	2.107		46.49	W
ATOM	4469	0	нон	109	46.647	46.329	3.314		55.14	W
ATOM	4470	0	нон	110	39.222	24.809	14.321 6.979		59.44	W
ATOM	4471	0	HOH	111.	49.804	23.224	6.539		50.22	W
ATOM	4472	0	HOH	112	-3.058	18.507	16.487		58.63 53.33	W
ATOM	4473	0	HOH	113	27.700	31.120	-5.231		69.60	W
ATOM	4474	0	HOH	114	29.929	38.507	-4.418	1.00		W
ATOM	4475	0	HOH	115	34.570	42.009	0.898	1.00		W W
ATOM	4476	0	HOH	116	40.508	27.337	28.107	1.00		W
ATOM	4477	0	HOH	117	41.210	12:812	-1.190	1.00		W
MOTA	4478	0	HOH	118	23.723	30.084	26.100	1.00		พ
ATOM	4479	0	HOH	119	0.869	28.565	2.785			พ
ATOM	4480	0	HOH	120	15.469	15.123	22.821	1.00		w
ATOM	4481	0	HOH	122	12.470	22.800	11.398	1.00		. พ
ATOM	4482	0	HOH	123	41.506	25.423	15.397	1.00		W
ATOM	4483	0	HOH	124	37.626	28.216	31.136	1.00		W
ATOM	4484	0	HOH	125	48.566	37.385	16.630	1.00		W
ATOM	4485	0	HOH	126	1.496	22.085	13.272	1.00		W
ATOM	4486	0	HOH	127	34.698	24.986	24.965	1.00		W
ATOM	4487	0	HOH	128	-2.903	37.363	6.990	1.00		W
ATOM	4488	0	HOH	129	12.491	-3.414	25.110	1.00	20.00	W
ATOM	4489	0	HOH	130		-10.899	28.961	1.00	20.00	W
ATOM ATOM	4490	0	нон	131	48.659	38.012	29.029	1.00		W
ATOM	4491	0	нон	133	52.619	28.488	32.666	1.00		W
ATOM	4492	0	нон	134	39.711	23.898	9.790	1.00	20.00	W
ATOM	4493	0	нон	135	3.443	35.318		1.00		W
ATOM	4494	0	HOH	136	20.485		-10.828	1.00		W
ATOM	4495	0	HOH	137	27.808	44.788	25.549	1.00	20.00	W

ATOM ATOM ATOM ATOM ATOM	4496 4497 4498 4499 4500	0 0 0	HOH HOH HOH HOH	138 139 140 141 142	32.311 26.404 24.546 64.483	40.520 40.444 29.367 32.976	18.168 7.377 -7.098 23.998	1.00 20.00 1.00 20.00 1.00 20.00 1.00 20.00 1.00 20.00	พ พ พ พ
	4501		нон	142	64.483 59.735	32.976 33.731	23.998 8.443	1.00 20.00 1.00 20.00	W

B. subtillis ACP E. coli ACP Streptomyces co	elicolor A3(2) ACP	-5 GPL MATL	STI	E E R V K K I
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I V D R L I G E Q L C A G E T	20 G V D E A G V K Q E D G T D L		N N A S F	VE DLGAD
40			50	60
SLDVV	ELVME	LED	EF DME	
SLDTV	ELVMA	LEE	E F D T E	I P DEEAE
SLALM	ETAAR	LES	R Y G V S	I P D D V A G
K I A T V K I T T V R V D T P	70 G D A V N Q A A I D R E L L D	0 Y I Q Y I N	G H Q A	A A

FIG. 4

	Atom Decidus	Res.	X	Y	Z		
ATCM	Type Residue	-5	13.445	10.407	11.181	1.00	7.22
ATCM	2 CA GLY	-5	14.143	11.725	11.174	1.00	5.61
ATCM	3 C GLY	-5	14.807	11.951	9.811	100	5.70
ATOM	4 O GLY	-5	14.370	12.786	9.043	1.00	5.61
ATOM	5 1HA GLY 6 2HA GLY	-5 -5	14.899 13.427	11.735 12.512	11.944	1.00	6.68
ATOM ATOM	7 1H GLY	<b>-</b> 5	13.304	10.082	11.362 10.204	1.00	7.06
ATOM	8 2H GLY	-5	12.521	10.507	11.650	1.00	7.45 7.32
ATOM	9 3H GLY	-Š	14.022	9.712	11.696	1.00	7.59
ATOM	10 N PRO	-4	15.850	11.199	9.553	1.00	5.38
ATOM	11 CA PRO	-4	16.579	11.330	8.267	1.00	4.86
ATOM ATOM	12 C PRO 13 O PRO	-4 -4	15.735	10.796	7.104 6.500	1.00	4.19
ATOM	13 O PRO 14 CB PRO	-4	14.970 17.842	11.522 10.496	8.484	1.00	4.30 5.34
ATOM	15 CG PRO	-4	17.475	9.509	9.545	1.00	5.78
ATOM	16 CD PRO	-4	16.442	10.169	10.420	1.00	5.92
ATOM	17 HA PRO-	-4	16.847	12.350	8.088	1.00	5.08
MOTA	18 1HB PRO 19 2HB PRO	-4 -4	18.652	11.121	8.826	1.00	5.86
MOTA ATOM	19 2HB PRO 20 1HG PRO	-4	18.117 18.344	9.986 9.260	7.571 10.135	1.00	5.21 6.43
ATOM	21 2HG PRO	-4	17.065	8.617	9.093	1.00	5.71
ATOM	22 2HD PRO	-4	15.694	9.451	10.728	1.00	6.14
ATOM	23 1HD PRO	-4	16.906	10.628	11.278	1.00	6.49
ATOM	24 N LEU	-3	15.866	9.543	6.782	1.00	3.93
MOTA MOTA	25 CA LEU 26 C LEU	-3 -3	15.072 14.070	8.976 7.952	5.655	1.00	3.68
ATOM	27 O LEU	-3	13.707	7.972	6.194 7.353	1.00	2.75 2.91
ATOM	28 CB LEU	-3	16.012	8.295	4.657	1.00	4.75
ATOM '	23 CG LEG	-3	15.555	8.610	3.231	1.00	5.69
ATOM	30 CD1 LEU	-3	16.304	9.840	2.715	1.00	6.59
ATOM	31 CD2 LEU	-3	15.856	7.414	2.324	1.00	6.39
atom atom	32 HN LEU 33 HA LEU	-3 -3	16.487 14.537	8.977 9.772	7.275 5.159	1.00	4.25 3.87
ATOM	34 1HB LEU	-3	15.991	7.227	4.812	1.00	4.81
ATOM	35 2HB LEU	-3	17.018	8.662	4.803	1.00	5.14
ATOM	36 HG LEU	-3	14.493	8.808	3.229	1.00	5.59
ATOM	37 1HD1 LEU	-3 -3	16.849	10.297	3.527	1.00	6.91
ATOM ATOM	38 2HD1 LEU 39 3HD1 LEU	-3 -3	15.596 16.995	10.550 9.542	2.313	1.00	6.87 6.92
ATOM	40 1HD2 LEU	-3	15.148	7.394	1.509	1.00	6.75
ATOM	41 2HD2 LEU	-3	15.774	6.501	2.894	1.00	6.70
MOTA	42 3HD2 LEU	-3	16.857	7.504	1.929	1.00	6.55
ATOM	43 N GLY	-2	13.619	7.057	5.357	1.00	2.32 1.96
MOTA MOTA	44 CA GLY 45 C GLY	-2 -2	12.638 11.651	6.032 5.742	5.813 4.682	1.00	1.44
ATOM	46 O GLY	-2	11.709	4.710	4.043	1.00	2.05
ATOM	47 HN GLY	-2	13.924	7.061	4.426	1.00	2.73
ATOM	48 1HA GLY	-2	12.099	6.404	6.671	1.00	2.15
ATOM	49 2HA GLY	-2	13.163	5.126	6.080	1.00	2.61 1.07
atom Atom	50 N SER 51 CA SER	-1 -1	10.749 9.760	6.649 6.434	4.425 3.331	1.00	0.77
ATOM	52 C SER	-1	9.611	7.726	2.524	1.00	0.80
ATOM	53 O SER	-1	8.568	8.007	1.971	1.00	1.03
MOTA	54 CB SER	-1	8.407	6.049	3.931	1.00	1.06
ATOM	55 OG SER	-1	7.911	7.134 7.476	4.704	1.00	1.57 1.67
atom atom	56 HN SER 57 HA SER	-1 -1	10.724 10.104	5.641	2.683	1.00	0.86
ATOM	58 1HB SER	-1	8.527	5.174	4.556	1.00	1.22
ATOM	59 2HB SER	<b>-ī</b>	7.709	5.826	3.140	1.00	1.21
MOTA	60 HG SER	-1	8.481	7.240	5.469	1.00	2.01
ATOM	61 N ALA	1	10.648	8.520 9.797	2.454 1.687	1.00	0.84 0.86
ATOM ATOM	62 CA ALA 63 C ALA	1 1 1	10.567 9.992		0.293	1.00	0.83
ATOM	64 O ALA	ī	8.843	9.816	0.019	1.00	0.87
ATOM	65 CB ALA	1	11.967	10.400	1.556	1.00	
ATOM	66 HN ALA	1	11.478		2.909		
atom Atom	67 HA ALA 68 1HB ALA	1	9.930 12.031				
ATOM	69 2HB ALA	i	12.158				
ATOM	70 3HB ALA	ī	12.700		1.898	1.00	1.48
ATOM	71 N ASP	2	10.779	8.974	-0.583		
MOTA	72 CA ASP	2	10.273				
atom Atom	73 C ASP 74 O ASP	2	9.341 8.421				
ATOM	75 CB ASP	1 2 2 2 2 2 2	11.451		-2.878	1.00	0.86
MOTA	76 CG ASP	. 2	11.709	9.554	-3.802	1.00	1.59
MOTA	77 OD1 ASP	2	11.953	9.327	-4.976	1.00	2.30

ATCM	73	022	λSP	2	11 653	10			
	_				11.658	19.674	-3.321	1.00	2.20
ATCM	73	727	<b>ASP</b>	2	11.697	8.745	-0.338	1.00	0.81
ATOM	30	ĽΑ	ASP	2	9.732	9.531			
ATCM	31			2			-2.331	1.00	0.85
		1HB	ASP		11.219	7.492	-3.473	1.00	1.31
MOTA	82	2HB	λSP	2	12.333	8.163			
ATOM	83	N	THR	3			-2.285	1.00	1.14
					9.573	6.601	-0.933	1.00	0.73
MOTA	84	CA	THR	3	8.709	5.399	-0.783	1.00	
ATOM	35	C	THR	3					0.69
				•	7.282	5.837	-0.452	1.00	0.66
ATOM	86	0	THR	3	6.372	5.666	-1.237	1.00	
ATOM	87	CB	THR	3					0.63
					9.253	4.534	0.355	1.00	0.71
ATOM	88	0G1	THR	3	10.665	4.674	0.418	1.00	0.86
ATOM	89	CG2	THR	3					
				- 1	8.895	3.070	0.110	1.00	0.75
ATOM	90	HN	THR	3	10.319	6.744	-0.314	1.00	0.75
ATOM	91	HA	THR	3	8.708				
						4.830	-1.699	1.00	0.68
ATOM	92	HB	THR	3	8.819	4.855	1.287	1.00	0.70
ATOM	93	HG1	THR	3	10.946	4.453	1.309		
ATOM	94	1HG2	THR	3				1.00	1.08
				3	9.527	2.442	0.720	1.00	1.26
ATOM	95	2HG2	THR	3	9.046	2.830	-0.932	1.00	
ATOM	96	3HG2	THR	3					1.33
					7.861	2.902	0.373	1.00	1.09
MOTA	97	N	LEU	4	7.086	6.404	0.709	1.00	0.68
ATOM	98	CA	LEU	4					
					5.721	6.862	1.118	1.00	0.68
ATOM	99	С	LEU	4	5.055	7.628	-0.025	1.00	0.66
ATOM	100	0	LEU	4	4.006	7.254			
ATOM							-0.507	1.00	0.66
	101	CB	LEU	4	5.838	7.776	2.340	1.00	0.73
ATOM	102	CG	LEU	4	4.566	7.670	3.182		
ATOM	103		LEU					1.00	0.77
		_		4	4.435	6.250	3.730	1.00	1.60
ATOM	104	CD2	LEU	4	4.643	8.660	4.346	1.00	
ATOM	105	HN	LEU	4					1.36
					7.842	6.528	1.317	1.00	0.71
ATOM	106	KA	LEU	4	5.119	6.006	1.370	1.00	0.67
ATOM	107	1 478	LEU	4					
					5.970	8.797	2.016	1.00	0.83
MOTA	108	ZHB	LEU	4	6.688	7.473	2.933	1.00	0.83
ATOM	109	HG	LEU	4	3.708	7.900	2.567		
ATOM								1.00	1.32
	110			4	3.887	5.642	3.027	1.00	2.12
ATOM	111	2HD1	LEU	4	3.907	6.274	4.672	1.00	
ATOM	112			4					2.07
					5.418	5.829	3.880	1.00	2.15
ATOM	113	1HD2	LEU	4	4.357	8.163	5.261	1.00	1.85
ATOM	114	2HD2	LEU	4	3.974				
						9.486	4.160	1.00	1.90
ATOM	115	3HD2	LEU	4	5.654	9.030	4.438	1.00	1.95
MOTA	116	N	GLU	5	5.659				
						8.695	-0.463	1.00	0.68
ATOM	117	CA	GLU	5	5.066	9.483	-1.577	1.00	0.69
ATOM	118	С	GLU	5	4.786	8.555	-2.760		
								1.00	0.64
ATOM	119	0	GLU	5	3.740	8.613	-3.375	1.00	0.64
ATOM	120	CB	GLU	5	6.043	10.581	-2.002	1.00	
ATOM	121								0.75
		CG	GLU	5	5.579	11.925	-1.438	1.00	0.99
MOTA	122	CD	GLU	5	5.850	13.029	-2.462	1.00	1.53
MOTA	123	OE1	GLU	5					
				2	6.673	13.884	-2.179	1.00	2.26
ATOM	124	OE2	GLU	5	5.229	13.000	-3.512	1.00	1.99
ATOM	125	HN	GLU	5					
				2	6.501	8.976	-0.062	1.00	0.69
ATOM	126	HA	GLU	5	4.146	9.926	-1.243	1.00	0.70
ATOM	127	1 1/12	GLU	5	6.075				
						10.637	-3.080	1.00	0.92
ATOM	128		GLU	5	7.029	10.352	-1.624	1.00	1.03
ATOM	129	1HG	GLU	5	6.120	12.140	-0.529	1.00	1.46
ATOM	130		GLU	Š					
			GLU	2	4.521	11.881	-1.226	1.00	1.41
ATOM	131	N	ARG	6	5.709	7.688	-3.071	1.00	0.62
MOTA	132	CA	ARG	6	5.489	6.744	-4.201		
ATOM	133							1.00	0.60
			ARG	6	4.238	5.922	-3.903	1.00	0.55
ATOM	134	. 0	ARG	6	3.258	5.972	-4.619	1.00	0.57
MOTA	135		ARG	· 6					
				9	6.707	5.815	-4.337	1.00	0.61
ATOM	136		ARG	6	6.411	4.687	-5.334	1.00	0.59
MOTA	137	CD	ARG	6	5.997	5.283	-6.680		
ATOM				2		2.283		1.00	0.64
	138		ARG	6	6.941	4.821	-7.736	1.00	0.73
ATOM	139	CZ	ARG	6	6.995	5.442	-8.883	1.00	1.07
ATOM	140			Ğ			0.005		
				ō	8.123	5.952	-9.296	1.00	1.70
ATOM	141		ARG	6	5.922	5.553	-9.617	1.00	1.79
MOTA	142		ARG	6		7.651			
				9	6.539		-2.553	1.00	0.65
ATOM	143		ARG	6	5.348	7.300	-5.112	1.00	0.63
ATOM	144	1HB	ARG	6	6.935	5.384	-3.374	1.00	0.60
ATOM	145		100						
			ARG	6	7.555	6.383	-4.685	1.00	0.68
ATOM	146	1HG	ARG	6	5.610	4.072	-4.953	1.00	0.56
ATOM	147		ÀRG	Ž					
				. 6	7.297	4.083	-5.466	1.00	0.61
ATOM	148		ARG	6	6.020	6.359	-6.620	1.00	0.67
ATOM	149		ARG	6	4.996	4.958		1.00	0.64
ATOM	150						-6.921		
			ARG	6	7.524	4.052	-7.569	1.00	0.94
ATOM	151	1441	ARG	6	8.946	5.867	-8.734	1.00	2.17
ATOM	152	2HH1		6					3.1.
ATOM	153				8.166	6.428	-10.175	1.00	2.13
			ARG	6	5.058	5.162	-9.301	1.00	2.29
MOTA	154	2HH2	ARG	6	5.964	6.027	-10.496	1.00	2.19
		_		-		V.V21	20.470	2.00	3

ATOM	155	И	$\lambda Y \Gamma$	7	4.271	5.170	-2.343	1.00	0.53
ATOM	156	Cλ	VAL	7	3.097	4.343	-2.476		
ATOM	157	С	VAL	7	1.864			1.00	0.50
ATOM	158	ŏ	VAL	ż		5.236	-2.365	1.00	0.50
		-			0.777	4.868	-2.765	1.00	0.61
ATOM	159	CB	VAL	7	3.357	3.664	-1.133	1.00	0.52
ATOM	160	CG1	VAL	7	2.279	2.619	-0.878	1.00	
ATOM	161	CG2	VAL	7	4.716	2.974			0.56
ATOM	162			7.			-1.166	1.00	0.53
		HN	VAL		5.070	5.152	-2.287	1.00	0.56
ATOM	163	HA	VAL	7	2.938	3.596	-3.232	1.00	0.50
ATOM	164	HB	VAL	7	3.342	4.402	-0.344		
ATOM	165	1HG1		7				1.00	0.56
ATOM	166	2HG1		ż	1.941	2.216	-1.821	1.00	1.14
					1.453	3.079	-0.364	1.00	1.13
ATOM	167	3HG1		7	2.687	1.824	-0.272	1.00	1.23
ATOM	168	1HG2	VAL	7	4.783	2.275	-0.349	1.00	1.19
ATOM	169	2HG2	VAL	7	5.499	3.708			
ATOM	170	3HG2	VAL	7			-1.076	1.00	1.06
ATOM	171	N		8	4.821	2.446	-2.098	1.00	1.15
			THR		2.028	6.411	-1.826	1.00	0.47
ATOM	172	CA	THR	8	0.871	7.335	-1.689	1.00	0.49
ATOM	173	С	THR	8	0.287	7.613	-3.071	1.00	0.47
ATOM	174	0	THR	8	-0.913	7.667			
ATOM	175	СВ	THR	8			-3.250	1.00	0.50
	_				1.335	8.649	-1.054	1.00	0.58
ATOM	176		THR	8	1.898	8.384	0.223	1.00	0.63
ATOM	177	CG2	THR	8	0.143	9.594	-0.902	1.00	0.65
ATOM	178	HN	THR	8	2.915	6.685	-1.514	1.00	
ATOM	179	HA	THR	8	0.120	6.877			0.50
ATOM	180	HB	THR	8			-1.068	1.00	0.48
					2.077	9.112	-1.685	1.00	0.60
ATOM	181	HG1		8	2.434	9.140	0.474	1.00	0.92
ATOM	182	1HG2	THR	8	-0.152	9.961	-1.874	1.00	1.18
ATOM	183	2HG2	THR	8	0.421	10.426	-0.272		
ATOM	184	3HG2	THR	8				1.00	1.17
ATOM	185				-0.683	9.062		1.00	1.30
		N	LYS	9	1.127	7.777	-4.054	1.00	0.49
MOTA	186	CA	LYS	9	0.615	8.035	-5.425	1.00	0.51
ATOM	187	C	LYS	9	-0.093	6.777	-5.919	1.00	0.46
ATOM	188	0	LYS	9	-1.121	6.837	-6.563		
MOTA	189	CB	LYS	ý				1.00	0.50
ATOM				3	1.782	8.373	-6.356	1.00	0.57
	190	CG	LYS	9	1.486	9.683	-7.088	1.00	0.83
MOTA	191	CD	LYS	9	2.733	10.570	-7.074	1.00	1.21
ATOM	192	CE	LYS	9	3.808	9.953	-7.971	1.00	1.47
ATOM	193	NZ	LYS	9	4.135				
ATOM	194	HN	LYS	á		10.898	-9.075	1.00	2.31
				3	2.091	7.718	-3.890	1.00	0.53
ATOM	195	HA	LYS	9	-0.083	8.857	-5.402	1.00	0.54
ATOM	196	1HB	LYS	9	1.909	7.580	-7.077	1.00	0.71
ATOM	197	2HB	LYS	9	2.686	8.480	-5.774	1.00	0.75
ATOM	198		LYS	ğ	0.676				
ATOM	199		LYS			10.198	-6.594	1.00	1.43
				9	1.208	9.469	-8.110	1.00	1.41
ATOM	200		LYS	9	3.110	10.646	-6.065	1.00	1.82
ATOM	201	2HD	LYS	9	2.479	11.554	-7.440	1.00	1.93
MOTA	202	1HE	LYS	9	3.441	9.026	-8.387	1.00	1.92
MOTA	203		LYS	9					
ATOM	204			,	4.696	9.759	-7.388	1.00	1.77
			LYS	9	3.912	11.869	-8.779	1.00	2.74
ATOM	205		LYS	9	3.575	10.653	-9.918	1.00	2.83
ATOM	206	3HZ	LYS	9	5.148	10.831	-9.300	1.00	2.62
ATOM	207	N	ILE	10	0.451	5.634	-5.608	1.00	0.43
ATOM	208	CA	ILE	10	-0.176	4.364			
ATOM	209	C	ILE	10	-1.459		-6.036	1.00	0.44
ATOM	210					4.137	-5.234	1.00	0.39
		0	ILE	10	-2.527	3.977	-5.787	1.00	0.43
ATOM	211	CB	ILE	10	0.809	3.227	-5.777	1.00	0.48
ATOM	212	CG1	ILE	10	2.071	3.447	-6.615	1.00	0.57
ATOM	213	CG2	ILE	10	0.167	1.902	-6.165	1.00	0.53
ATOM	214		ILE	10	3.198	2.559			
ATOM	215	HN	ILE				-6.086	1.00	0.73
ATOM				10	1.276	5.610	-5.084	1.00	0.45
	216	HA	ILE	10	-0.409	4.410	-7.085	1.00	0.48
ATOM	217	HB	ILE	10	1.069	3.207	-4.729	1.00	0.47
ATOM	218	1HG1	ILE	10	2.370	4.483	-6.548	1.00	0.65
ATOM	219	2HG1	ILE	10	1.866	3.197	-7.646	1.00	0.65
ATOM	220	1HG2	Tt.P	10					
ATOM	221	2HG2			0.064	1.856	-7.238	1.00	1.15
	227	21102	ILE	10	-0.806	1.829	-5.704	1.00	1.10
ATOM	222	3HG2	ILE	10	0.791	1.090	-5.825	1.00	1.22
ATOM	223	1HD1		10	3.988	3.178	-5.689	1.00	1.17
ATOM	224	2HD1		10	3.585	1.952	-6.391	1.00	1.28
ATOM	225	3HD1	ILE	10					
ATOM	226	N	ILE		2.815	1.919	-5.305	1.00	1.36
ATOM				11	-1.363	4.126	-3.935	1.00	0.34
	227	CA	ILE	11	-2.581	3.912	-3.100	1.00	0.31
MOTA	228	C	ILE	11	-3.628	4.971	-3.443	1.00	0.33
ATOM	229	0	ILE	11	-4.692	4.674	-3.949	1.00	0.38
ATOM	230	CB	ILE	11	-2.231	4.038	-1.614	1.00	0.31
ATOM	231		ILE	īī	-1.167	3.005			
	_				407	3.003	-1.232	1.00	0.42

ATCH	232 CG2 ILE						
ATOM		11	-3.490	3.793	-0.732	1.00	
ATCM		11	-0.869	3.106	0 257		
ATCM	234 HN ILE 235 HA ILE	11	-0.492	4.260	-3.510		
ATOM		11	-2.985	2.933	-3.294		
ATOM	236 HB ILE 237 1HG1 ILE	11	-1.859	5.033	-1:417		
ATOM		11	-0.263	3.194	-1.791	1.00	
ATOM		11	-1.531	2.016	-1.458		
ATOM		11	-3.237	3.817	0.267		
ATOM		11	-3.903	2.826	-1.031		
ATOM		11	-4.218	4.561	-0.996	1.00	
ATOM		11	-0.273	2.259	0.572	1.00	
ATOM		11	-1.797	3.109	0.820	1.00	0.99
ATOM		11	-0.328	4.018	0.466	1.00	1.22
ATOM		12	-3.331	6.205	-3.150	1.00	1.12
ATOM		12	-4.294	7.310	-3.427	1.00	0.38
ATOM	247 C VAL 248 O VAL	12	-4.862	7.187	-4.844	1.00	0.44
ATOM	249 CB VAL	12	-6.050	7.016	-5.037	1.00	0.61
ATOM	250 CG1 VAL	12	-3.567	8.650	-3.286	1.00	0.49
ATOM	251 CG2 VAL	12	-4.535	9.795	-3.586	1.00	0.59
ATOM	252 HN VAL	12	-3.036	8.792	-1.858	1.00	0.50
ATOM	253 HA VAL	12	-2.469	6.405	-2.731	1.00	0.44
ATOM		12	-5.099	7.266	-2.714	1.00	0.44
ATOM	254 HB VAL 255 1HG1 VAL	12	-2.743	8.685	-3.984	1.00	0.49
ATOM	256 2HG1 VAL	12	-4.123	10.421	-4.363	1.00	0.94
ATOM	257 3HG1 VAL	12	-4.686	10.383	-2.692	1.00	1.35
ATOM	258 1HG2 VAL	12	-5.481	9.391	-3.914	1.00	1.23
ATOM	259 2HG2 VAL	12	-3.716	9.401	-1.280	1.00	1.09
ATOM	260 3HG2 VAL	12	-2.064	9.261	-1.881	1.00	1.15
ATOM	261 N ASP	12 13	-2.954	7.815	-1.405	1.00	1.17
ATOM	262 CA ASP	13	-4.023	7.287	-5.833	1.00	0.45
ATOM	263 C ASP	13	-4.502	7.193	-7.244	1.00	0.50
ATOM	264 O ASP	13	-5.372	5.947	-7.429	1.00	0.45
ATOM	265 CB ASP	13	-6.222	5.898	-8.296	1.00	0.49
ATOM	266 CG ASP	13	-3.296	7.112	-8.184	1.00	0.57
ATOM	267 OD1 ASP	13	-3.751	7.364	-9.623	1.00	1.25
ATOM	268 OD2 ASP	13	-2.914	7.729	-10.432	1.00	1.87
ATOM	269 HN ASP	13	-4.927	7.187	-9.892	1.00	1.93
ATOM	270 HA ASP	13	-3.073	7.433	-5.648	1.00	0.46
ATOM	271 1HB ASP	13	-5.081	8.068	-7.484	1.00	0.55
ATOM	272 2HB ASP	13	-2.851	6.132	-8.115	1.00	0.87
ATOM	273 N ARG	14	-2.569 -5.161	7.859	-7.899	1.00	0.86
ATOM	274 CA ARG	14		4.935	-6.636	1.00	0.39
ATOM	275 C ARG	14	-5.971	3.695	-6.791	1.00	0.37
ATOM	276 O ARG	14	-7.082	3.633	-5.736	1.00	0.32
MOTA	277 CB ARG	14	-8.198 -5.040	4.056	-5.970	1.00	0.34
ATOM	278 CG ARG	14	-5.049 -4.404	2.479	-6.649	1.00	0.39
ATOM	279 CD ARG	14	-3.757	2.155	-8.004	1.00	0.48
ATOM	280 NE ARG	14	-3.019	3.413	-8.600	1.00	0.51
ATOM	281 CZ ARG	14	-1.795	3.051	-9.842	1.00	0.62
ATOM	282 NH1 ARG	14	-0.833	3.466	-10.019	1.00	0.95
ATOM	283 NH2 ARG	14	-1.532	2.603 -	-10.203	1.00	1.69
ATOM	284 HN ARG	14	-4.465	4.744	-10.014	1.00	1.63
ATOM	285 HA ARG	14	-6.417	4.986	-5.949	1.00	0.37
ATOM	286 1HB ARG	14	-5.625	3.685 1.630	-7.774	1.00	0.42
ATOM	287 2HB ARG	14	-4.279	2.697	-6.314	1.00	0.38
ATOM	288 1HG ARG	14	-5.160	1.788	-5.923	1.00	0.37
ATOM	289 2HG ARG	14	-3.648	1.395	-8.682 -7.866	1.00	0.51
ATOM ATOM	290 1HD ARG	14	-3.071	3.841	-7.885	1.00	0.53
ATOM	291 2HD ARG	14	-4.525	4.136	-8.836	1.00	0.50
ATOM	292 HE ARG	14	-3.453	2.500 -	10 526		0.50
ATOM	293 1HH1 ARG	14	-1.035	1.623 -	10.207	1.00	0.87
ATOM	294 2HH1 ARG	14	0.105	2.921 -	10.207	1.00	2.25
ATOM	295 1HH2 ARG	14	-2.269	5.405	-9.874		2.08
ATOM	296 2HH2 ARG	14	-0.594		10.150	1.00	2.17
ATOM	297 N LEU	15	-6.793	3.089	-4.585	1.00	2.01
ATOM	298 CA LEU	15	-7.832	2.971	-3.525	1.00	0.30
ATOM	299 C LEU	15	-8.196		-2.977	1.00	0.30
ATOM	300 O LEU 301 CB LEU	15	-9.146	4.505	-2.234	1.00	0.31
ATOM		15	-7.290		-2.391	1.00	0.34
ATOM		15	-7.351		-2.790	1.00	0.39
ATOM		15	-8.810	0.156	-2.885	1.00	0.45
ATOM	100	15	-6.672	: :	-4.147	1.00	0.40
ATOM	304	15	-5.893	2.740	-4.421	1.00	0.33
ATOM	306 HA LEU	15	-8.715	2.510	-3.941	1.00	0.33
ATOM	308 2HB LEU	15	-7.886	2.246	-1.504	1.00	0.37
	120	15	-6.266		-2.186	1.00	0.34

ATOM	309 HG LEU						
-		15	-6.843	0.017	-2.039	1.00	0.46
ATOM	310 IND1 LEU	15	-8.986	-0.644	-2.180	1.00	0.46
ATCM	311 2HD1 LEU	15	-9.013	-0.197	-3.886		1.16
ATOM	312 3HD1 LEU	15	-9.459	0.987	-2.658	1.00	1.04
ATCM	313 1HD2 LEU	15	-6.598	-0.665		1.00	1.03
ATOM	314 2HD2 LEU	15	-5.684	0.826	-4.349	1.00	1.06
ATOM	315 3HD2 LEU	15	-7.258		-4.127	1.00	1.08
MOTA	316 N GLY	16		0.867	-4.920	1.00	1.10
ATOM	317 CA GLY	16	-7.456	5.373	-3.332	1.00	0.35
ATOM	318 C GLY	16	-7.777	6.737	-2.822	1.00	0.41
ATOM	***		-9.065	7.239	-3.474	1.00	0.47
ATOM		16	-9.782	8.042	-2.911	1.00	0.72
	320 HN GLY	16	-6.693	5.243	-3.931	1.00	0.40
ATOM	321 1HA GLY	16	-6.972	7.411	-3.066	1.00	
ATOM	322 2HA GLY	16	-7.904	6.699	-1.750		0.47
ATOM	323 N VAL	17	-9.364	6.771	-4.656	1.00	0.53
ATOM	324 CA VAL	17	-10.606	7.220	-5.348	1.00	0.45
MOTA	325 C VAL	17	-10.558	8.740		1.00	0.66
ATOM	326 O VAL	17	-10.142	9.222	-5.551	1.00	0.76
MOTA	327 CB VAL	17	-11.826		-6.586	1.00	0.89
ATOM	328 CG1 VAL	17	-13.099	6.835	-4.504	1.00	0.86
ATOM	329 CG2 VAL	17		7.397	-5.144	1.00	1.16
ATOM	330 HN VAL	17	-11.930	5.310	-4.433	1.00	1.06
ATOM	331 HA VAL		-8.771	6.123	-5.089	1.00	0.44
ATOM		17	-10.671	6.737	-6.310	1.00	0.75
ATOM		17	-11.717	7.235	-3.507	1.00	1.21
ATOM		17	-13.187	8.447	-4.908	1.00	1.72
	334 2HG1 VAL	17	-13.958	6.868	-4.759	1.00	1.62
ATOM	335 3HG1 VAL	17	-13.048	7.272	-6.215	1.00	
ATOM	336 1HG2 VAL	17	-11.288	4.942	-3.646		1.56
ATOM	337 2HG2 VAL	17	-11.624	4.884	-5.377	1.00	1.40
MOTA	338 3HG2 VAL	17	-12.952	5.028	-4.375	1.00	1.46
ATOM	339 N ASP	18	-10.979	9.498	-4.225	1.00	1.47
ATOM	340 CA ASP	18	-10.956	10.982	-4.576	1.00	0.82
ATOM	341 C ASP	18	-9.777		-4.720	1.00	0.99
MOTA	342 O ASP	18	-9.809	11.555	-3.930	1.00	0.95
ATOM	343 CB ASP	18	-12.263	12.684	-3.481	1.00	1.75
ATOM	344 CG ASP	18	-12.203	11.567	-4.181	1.00	1.18
ATOM	345 OD1 ASP		-13.023	12.253	-5.318	1.00	1.80
ATOM	346 OD2 ASP	18	-14.122	11.816	-5.618	1.00	2.38
ATOM		18	-12.494	13.205	-5.868	1.00	2.37
ATOM		18	-11.311	9.093	-3.750	1.00	0.82
	348 HA ASP	18	-10.849	11.240	-5.763	1.00	1.08
ATOM	349 1HB ASP	18	-12.043	12.290	-3.410	1:00	1.24
ATOM	350 2HB ASP	18	-12.869	10.773	-3.769	1.00	1.48
MOTA	351 N GLU	19	-8.735	10.787	-3.758	1.00	
ATOM	352 CA GLU	19	-7.554	11.288	-2.998		0.64
ATOM	353 C GLU	19	-7.952	11.554	-1.545	1.00	0.62
ATOM	354 O GLU	19	-8.124	12.685		1.00	0.62
MOTA	355 CB GLU	19	-7,048		-1.134	1.00	0.75
ATOM	356 CG GLU	19		12.585	-3.635	1.00	0.77
ATOM	357 CD GLU	19	-6.935	12.402	-5.149	1.00	1.61
ATOM	358 OE1 GLU	19	-6.329	13.661	-5.772	1.00	2.10
ATOM	359 OE2 GLU		-7.074	14.420	-6.371	1.00	2.44
ATOM		19	-5.130	13.846	-5.639	1.00	2.74
ATOM		19	-8.729	9.880	-4.129	1.00	1.15
ATOM		19	-6.771	10.545	-3.023	1.00	0.58
ATOM .	362 1HB GLU	19	-6.078	12.830	-3.230	1.00	0.89
ATOM	363 2HB GLU	19	-7.741	13.386	-3.419	1.00	1.28
ATOM	364 1HG GLU	19	-7.917	12.234	-5.566	1.00	2.13
	365 2HG GLU	19	-6.302	11.553	-5.363	1.00	2.05
ATOM	366 N ALA	20	-8.098	10.519	-0.763	1.00	0.53
ATOM	367 CA ALA	20	-8.482	10.700	0.668	1.00	0.61
ATOM	368 C ALA	20	-8.820	9.337	1.269	1.00	0.58
ATOM	369 O ALA	20	-8.444	9.022	2.381	1.00	
ATOM	370 CB ALA	20	-9.705	11.617	0.767		0.64
MOTA	371 HN ALA	20	-7.952	9.617		1.00	0.71
ATOM	372 HA ALA	20	-7.658	11.136	-1.118	1.00	0.47
MOTA	373 1HB ALA	20	-10.511	11.091	1.209	1.00	0.68
ATOM	374 2HB ALA	20	-10.311		1.258	1.00	1.14
ATOM	375 3HB ALA	20	-10.018 -9.450	11.909	-0.225	1.00	1.32
ATOM	376 N ASP	21	-7.45U	12.497	1.338	1.00	1.30
ATOM	377 CA ASP		-9.531	8.527	0.536	1.00	0.54
ATOM	378 C ASP	21	-9.906	7.180	1.043	1.00	0.58
ATOM	379 O ASP	21	-8.659	6.447	1.547	1.00	0.50
ATOM	• • • • • • • • • • • • • • • • • • • •	21	-8.733	5.602	2.418	1.00	0.53
ATOM		21	-10.544	6.378	-0.094	1.00	0.64
ATOM		21	-12.062	6.564	-0.065	1.00	0.76
ATOM		21	-12.679	6.398	-1.105	1.00	1.29
ATOM		21	-12.582	6.869	0.995	1.00	1.52
ATOM	300	21	-9.821	8.807	-0.352	1.00	0.53
	385 HA ASP	21	-10.614	7.287	1.847	1.00	0.70
						-	

ATCM	386	1HB	ASP	21	-10.308	5.332	0.927	1 00	0 00
ATOM	387	283	λ5?	21	-10.156	6.726		1.00	0.92
ATOM	388	N	VAL	22			-1.040	1.00	0.83
ATOM	389				-7.516	6.762	1.004	1.00	0.44
		CA	VAL	22	-6.263	6.084	1.445	1.00	0.41
MOTA	390	C	VAL	22	-6.097	6.233	2.960	1.00	0.48
ATOM	391	0	VAL	22	-6.123	7.325	3.493		
ATOM	392	CB	VAL	22	-5.068			1.00	0.64
ATOM	393					6.726	0.737	1.00	0.45
		CG1		22	-5.007	8.213	1.086	1.00	0.90
ATOM	394	CGZ	VAL	22	-3.778	6.042	1.196	1.00	0.85
ATOM	395	HN	VAL	22	-7.481	7.445	0.302		
ATOM	396	HA	VAL	22	-7.401			1.00	0.45
ATOM					-6.312	5.036	1.189	1.00	0.39
	397	HB	VAL	22	-5.179	6.612	-0.332	1.00	0.59
ATOM	398	1HG1	VAL	22	-4.269	8.699	0.465	1.00	1.54
ATOM	399	2HG1	VAL	22	-4.735	8.329	2.125		
ATOM	400	3HG1	VAT.	22	-5.973		2.123	1.00	1.43
ATOM	401			22		8.663	0.915	1.00	1.37
					-3.093	5.970	0.364	1.00	1.43
ATOM	402	2HG2		22	-4.006	5.051	1.561	1.00	1.32
MOTA	403	3HG2	VAL	22	-3.325	6.621	1.987	1.00	1.47
MOTA	404	N	LYS	23	-5.920	5.143			
MOTA	405	CA	LYS	23			3.659	1.00	0.43
ATOM					-5.745	5.225	5.138	1.00	0.54
	406	Ç	LYS	23	-4.981	3.996	5.638	1.00	0.62
MOTA	407	0	LYS	23	-5.383	2.870	5.424	1.00	1.44
MOTA	408	CB	LYS	23	-7.113	5.283	5.817		0.55
ATOM	409	CG	LYS	23	-7.843			1.00	
ATOM	410					6.559	5.396	1.00	0.67
		CD	LYS	23	-9.104	6.730	6.246	1.00	0.92
MOTA	411	CZ	LYS	23	-9.214	8.183	6.713	1.00	1.09
ATOM	412	NZ	LYS	23	-10.431	8.342	7.558	1.00	
ATOM	413		LYS	23	-5.897				1.65
ATOM	414	HA	LYS			4.271	3.211	1.00	0.41
		-		23	-5.187	6.117	5.382	1.00	0.69
MOTA	415		LYS	23	-6.980	5.282	6.888	1.00	0.72
ATOM	416	2HB	LYS	23	-7.694	4.422	5.525	1.00	0.65
ATOM	417	1 HG	LYS	23	-8.119	6.490	4.355	1.00	
ATOM	418		LYS	23					0.82
					-7.192	7.410	5.541	1.00	0.94
ATOM	419		LYS	23	-9.048	6.081	7.107	1.00	1.18
MOTA	420	2HD	LYS	23	-9.972	6.473	5.657	1.00	1.22
ATOM	421	1HE	LYS	23	-9.285	8.833	5.854	1.00	1.63
ATOM	422		LYS	23	-8.339	8.443			
ATOM	423		LYS			0.443	7.290	1.00	1.47
				23	-10.842	9.284	7.401	1.00	2.08
ATOM	424		LYS	23	-10.173	8.239	8.561	1.00	2.13
MOTA	425	3HZ	LYS	23	-11.129	7.615	7.303	1.00	2.14
ATOM	426	N	LEU	24	-3.886	4.211	6.311		
ATOM	427	CA	LEU	24				1.00	0.81
					-3.081	3.069	6.840	1.00	0.73
MOTA	428	C	LEU	24	-3.867	2.357	7.942	1.00	0.69
ATOM	429	0	LEU	24	-4.023	1.152	7.930	1.00	0.70
ATOM	430	CB	LEU	24	-1.776	3.606	7.434	1.00	0.87
ATOM	431	CG	LEU	24	-1.115				
ATOM	432					4.577	6.451	1.00	1.53
		_	LEU	24	-1.244	6.008	6.977	1.00	2.04
ATOM	433		LEU	24	0.368	4.229	6.308	1.00	2.10
ATOM	434	HN.	LEU	24	-3.593	5.130	6.474	1.00	1.52
MOTA	435	HA	LEU	24	-2.859	2.370	6.040	1.00	0.66
ATOM	436		LEU	24					
ATOM	437	2110	120		-1.107	2.784	7.632	1.00	0.95
			LEU	24	-1.992	4.121	8.358	1.00	1.14
MOTA	438	HG	LEU	24	-1.600	4.502	5.489	1.00	1.99
MOTA	439		LEU	24	-2.173	6.437	6.635	1.00	2.68
ATOM	440	2HD1	LEU	24	-0.418	6.601	6.611	1.00	2.35
ATOM	441		1.877	24	-1.228				2.33
ATOM	442		250			5.998	8.057	1.00	2.28
		1102	LEU	24	0.656	3.547	7.094	1.00	2.39
ATOM		2HD2	LEU	24	0.957	5.132	6.383	1.00	2.56
ATOM	444		LEU	24	0.539	3.768	5.348	1.00	2.54
ATOM	445	N	GLU	25	-4.358	3.097	8.899	1.00	0.74
ATOM	446		GLU	25	-5.129	2.472	10.011	1.00	
ATOM	447		GLU						0.78
ATOM		-		25	-6.410	1.828	9.471	1.00	0.72
	448		GLU	25	-7.072	1.081	10.162	1.00	0.82
MOTA	449		GLU	25	-5.498	3.546	11.037	1.00	0.86
ATOM	450	CG	GLU	25	-6.178	4.718	10.327	1.00	1.58
ATOM	451		GLU	25	-7.020	5.505	11.333	1.00	2.17
ATOM	452		GLU	25					
ATOM	453				-6.443	6.063	12.251	1.00	2.77
			GLU	25	-8.229	5.535	11.167	1.00	2.66
ATOM	454		GLU	25	-4.214	4.066	8.889	1.00	0.78
ATOM	455		GLU	25	-4.522	1.717	10.488	1.00	0.83
ATOM	456	1HB	GLU	25	-4.604	3.896	11.531	1.00	1.38
ATOM	457		GLU	25					
ATOM	458		CLU		-6.174	3.126	11.769	1.00	1.27
ATOM	459			25	-6.816	4.342	9.542	1.00	2.03
ATOM		-	CLU	25	-5.425	5.366	9.901	1.00	2.22
	460		ALA	26	-6.772	2.107	8.246	1.00	0.60
ATOM	461		λLλ	26	-8.011	1.502	7.689	1.00.	0.57
ATOM	462	С	XLA	26	-7.709	0.089	7.197	1.00	0.56

ATCM	463	O ALA	26		a à			
ATCM	454			-6.605	-0.216	6.792	1.00	0.53
		C3 ALA	26	-8.509	2.348	6.518	1.00	0.53
ATOM	465	HN ALA	26	-6.233	2.711	7.694	1.00	
ATOM	465	HA ALA	26	-8.771				0.57
ATOM	457	THE ALA	26		1.464	8.456	1.00	0.65
				-9.309	1.828	6.013	1.00	0.97
ATCM	468	2HB ALA	26	-7.698	2.516	5.826	1.00	1.13
ATOM	469	3HB ALA	26	-8.871	3.297			
ATOM	470	N SER	27			6.986	1.00	1.13
				-8.685	-0.776	7.217	1.00	0.60
ATOM	471	CA SER	27	-8.452	-2.165	6.738	1.00	
ATOM	472	C SER	27	-8.524	-2.201			0.63
ATOM	473	O SER	27			5.205	1.00	0.55
ATOM				-8.406	-3.247	4.599	1.00	0.58
	474	CB SER	27	-9.521	-3.091	7.320	1.00	0.74
ATOM	475	OG SER	27	8.923	-3.952	8.281		
ATOM	476	HN SER	27	-9.571			1.00	1.33
ATOM .					-0.509	7.540	1.00	0.65
			27	-7.474	-2.496	7.059	1.00	0.65
ATOM	478	1HB SER	27	-9.963	-3.674	6.523	1.00	
ATOM	479	2HB SER	27	-10.287	-2.504			0.90
ATOM	480	HG SER	27	-0.207	-2.504	7.799	1.00	0.89
ATOM				-9.122	-3.606	9.154	1.00	1.74
	481	n Phe	28	-8.716	-1.070	4.570	1.00	0.50
MOTA	482	CA PHE	28	-8.791	-1.056	3.083		
ATOM	483	C PHE	28				1.00	0.47
ATOM	484			-9.968	-1.918	2.623	1.00	0.54
		O PHE	28	-9.838	-2.735	1.735	1.00	0.67
ATOM	485	CB PHE	28	-7.492	-1.620	2.506	1.00	0.44
ATOM	486	CG PHE	28	-6.555	-0.491	2.148		
ATOM	487	CD1 PHE	28				1.00	0.38
ATOM	488			-6.241	-0.238	0.807	1.00	1.15
		CD2 PHE	28	-5.990	0.296	3.158	1.00	1.29
MOTA	489	CE1 PHE	28	-5.363	0.800	0.478	1.00	1.15
ATOM	490	CE2 PHE	28	-5.114	1.335			
ATOM	491	CZ PHE	28			2.826	1.00	1.28
ATOM				-4.799	1.586	1.487	1.00	0.36
	492	hn Phe	28	-8.811	-0.234	5.067	1.00	0.51
MOTA	493	ha phe	28	-8.928	-0.042	2.739	1.00	
ATOM	494	1HB PHE	28	-7.713				0.46
ATOM	495	2HB PHE			-2.196	1.622	1.00	0.45
ATOM			28	-7.020	-2.257	3.240	1.00	0.49
	496	HD1 PHE	28	-6.674	-0.844	0.027	1.00	2.03
ATOM	497	HD2 PHE	28	-6.231	0.103	4.192	1.00	
ATOM	498	HEL PHE	28	-5.118	0.103			2.17
ATOM	499				0.991	-0.555	1.00	2.03
			28	-4.672	1.937	3.605	1.00	2.16
ATOM	500	HZ PHE	28	-4.122	2.387	1.232	1.00	0.38
ATOM	501	n Lys	29	-11.117	-1.744	3.219	1.00	0.54
MOTA	502	CA LYS	29	-12.293				
ATOM	503				-2.561	2.806	1.00	0.61
			29	-13.555	-2.051	3.508	1.00	0.65
ATOM	504	O LYS	29	-14.595	-1.901	2.899	1:00	0.69
ATOM	505	CB LYS	29	-12.056	-4.024	3.187		
ATOM	506	CG LYS	29				1:00	0.69
ATOM				-11.661	-4.114	4.662	1.00	0.73
	507	CD LYS	29	-10.890	-5.413	4.905	1.00	0.88
ATOM	508	CE LYS	29	-11.648	-6.277	5.915	1.00	1.61
ATOM	509	NZ LYS	29	-11.118	-7.669			
MOTA	510	HN LYS	29			5.873	1.00	2.16
ATOM				-11.205	-1.081	3.935	1.00	0.55
	511	HA LYS	29	-12.423	-2.487	1.738	1.00	0.63
MOTA	512	1HB LYS	29	-11.262	-4.430	2.578	1.00	0.71
ATOM	513	2HB LYS	29	-12.962				
ATOM	514	1HG LYS		-12.902			1.00	0.77
			29	-12.550	-4.105	5.275	1.00	0.81
ATOM	515	2HG LYS	29	-11.037	-3.270	4.920	1.00	0.71
ATOM	516	1HD LYS	29	-9.910	-5.183	5.295	1.00	1.44
ATOM	517	2HD LYS	29	-10.789				
ATOM	518	THE LYS			-5.951	3.974	1.00	1.05
ATOM		THE LIS	29	-12.698	-6.284	5.666	1.00	2.05
	519	2HE LYS	29	-11.515	-5.871	6.907	1.00	2.21
ATOM	520	1HZ LYS	29	-10.140	-7.658	5.521	1.00	2.49
ATOM	521	2HZ LYS	29	-11.709	-8.246	5.240	1.00	
ATOM	522	3HZ LYS	29			3.240		2.47
ATOM	523			-11.134	-8.076	6.829	1.00	2.66
		N GLU	30	-13.475	-1.789	4.784	1.00	0.68
MOTA	524	CA GLU	30	-14.675	-1.297	5.518	1.00	0.78
ATOM	525	C GLU	30	-14.489				
MOTA	526	O GLU		_12 444	0.176	5.885	1.00	0.79
ATOM			30	-15.443	0.895	6.108	1.00	0.96
	527	CB GLU	30	-14.863	-2.118	6.795	1.00	0.91
MOTA	528	CG GLU	30	-13.616	-1.990	7.672	1.00	1.39
atom	529	CD GLU	30	-13.876	-2.645	9.030		1.76
ATOM	530	OE1 GLU					1.00	
ATOM	531	227 000	30	-14.797	-2.217	9.705	1.00	2.17
		OE2 GLU	30	-13.148	-3.563	9.372	1.00	2.28
ATOM	532	HN GLU	30	-12.628	-1.921	5.259	1.00	0.68
MOTA	533	HA GLU	30	-15.548	-1.404	4.891	1.00	
ATOM	534	1HB GLU	30					0.79
ATOM	535			-15.015	-3.155	6.538	1.00	1.32
ATOM		2HB GLU	30	-15.724	-1.750	7.336	1.00	1.25
	536	1HG GLU	30	-13.383	-0.946	7.817	1.00	1.81
ATOM	537	2HG GLU	30	-12.784	-2.481	7.187	1.00	1.80
ATOM	538	N ASP	31	-13.269				
ATOM	539	CA ASP		-13.209	0.632	5.956	1.00	0.73
		an Mar	. 31	-13 <sub>.</sub> 029	2.057	6.316	1.00	0.75

a.U#	340 C ASP	31					
ATCM			-13.291	2.949	5.101	1.00	9.72
		31	-14.213	3.734	5.084	1.00	0.77
ATCM	542 CB ASP	31	-11.580	2.233	6.772		
ATOM	543 CG ASP	31	-11.555	2.867		1.00	0.76
ATOM	544 OD1 ASP	31	-11.333		8.164	1.00	0.98
ATOM			-11.051	3.971	3.281	1.00	1.57
		31	-12.042	2.237	9.088	1.00	1.51
ATOM	546 HN ASP	31	-12.511	0.037	5.777		
ATOM	547 HA ASP	31				1.00	0.77
ATOM			-13.694	2.341	7.119	1.00	0.83
		31	-11.059	2.874	6.077	1.00	0.84
ATOM	549 2HB ASP	31	-11.094	1.268	6.806		
ATOM	550 N LEU	32	-12.479			1.00	0.92
ATOM	551 CA LEU		-12.479	2.840	4.085	1.00	0.66
		32	-12.683	3.690	2.878	1.00	0.68
ATOM	552 C LEU	32	-13.430	2.898	1.801	1.00	0.66
ATOM	553 O LEU	32	-13.403	3.242			
ATOM	554 CB LEU	32	11.304		0.636	1.00	0.69
ATOM			-11.324	4.140	2.335	1.00	0.67
		32	-10.498	2.919	1.926	1.00	0.51
ATOM	556 CD1 LEU	32	-10.282	2.930	0.411	1.00	
MOTA	557 CD2 LEU	32	-9.139	2.967			0.49
ATOM	558 HN LEU	32			2.629	1.00	0.57
ATOM			-11.733	2.205	4.117	1.00	0.65
		32	-13.264	4.559	3.149	1.00	0.75
ATOM	560 1HB LEU	32	-10.796	4.690	3.099		
MOTA	561 2HB LEU	32	-11.476	4.775		1.00	0.77
MOTA	562 HG LEU	32	-11.470	4.//5	1.476	1.00	0.74
ATOM			-11.022	2.017	2.210	1.00	0.56
	563 1HD1 LEU	32	-9.459	3.585	0.170	1.00	1.07
ATOM	564 2HD1 LEU	32	-11.178	3.282	-0.078		
ATOM	565 3HD1 LEU	32		3.202		1.00	1.15
ATOM			-10.057	1.930	0.073	1.00	1.12
		32	-9.200	3.620	3.487	1.00	1.17
MOTA	567 2HD2 LEU	32	-8.393	3.341	1.944	1.00	
ATOM	568 3HD2 LEU	32	-8.865	1.973			1.18
ATOM	569 N GLY				2.952	1.00	1.13
ATOM		33	-14.103	1.843	2.178	1.00	0.69
	570 CA GLY	33	-14.856	1.035	1.172	1.00	0.74
ATOM	571 C GLY	33	-13.937	0.672	0.002		
ATOM	572 O GLY	33	-13.951	1.310		1.00	0.68
ATOM	573 HN GLY		-43.331		-1.031	1.00	0.89
ATOM		33	-14.117	1.583	3.122	1.00	0.71
		33	-15.692	1.609	0.803	1.00	0.82
MOTA	575 2HA GLY	33	-15.219	0.130	1.639	1.00	
ATOM	576 N ALA	34	-13.139				0.79
ATOM	577 CA ALA	34		-0.347	0.158	1.00	0.60
ATOM			-12.220	-0.751	-0.944	1.00	0.59
	578 C ALA	34	-12.385	-2.246	-1.225	1.00	0.74
MOTA	579 O ALA	34	-12.732	-3.016	-0.352		
ATOM	580 CB ALA	34	-10.776			1.00	1.25
ATOM				-0.467	-0.531	1.00	0.58
		34	-13.144	-0.848	0.999	1.00	0.70
ATOM	582 HA ALA	34	-12.456	-0.188	-1.836	1.00	0.61
MOTA	583 1HB ALA	34	-10.160	-1.322	-0.767		
ATOM	584 2HB ALA	34				1.00	1.11
ATOM			-10.736	-0.277	0.532	1.00	1.13
		34	-10.411	0.397	-1.065	1.00	1.26
MOTA	586 N ASP	35	-12.137	-2.664	-2.435	1.00	0.85
MOTA	587 CA ASP	35	-12.278	-4.109	-2.766		
ATOM	588 C ASP	35				1.00	0.96
ATOM			-10.994	-4.844	-2.373	1.00	0.88
		35	9.903	-4.405	-2.673	1.00	1.15
ATOM	590 CB ASP	35	-12.518	-4.270	-4.268	1.00	1.06
MOTA	591 CG ASP	35	-14.012	-4.465	-4.529		
MOTA	592 OD1 ASP	35				1.00	1.59
ATOM	593 / OD2 ASP		-14.343	-5.156	-5.479	1.00	2.24
		35	-14.801	-3.920	-3.775	1.00	2.05
MOTA	594 HN ASP	35	-11.856	-2.027	-3.126	1.00	1.21
ATOM	595 HA ASP	35	-13.112	-4.525	-2.220	1.00	
ATOM	596 1HB ASP	35	-11.976				1.09
ATOM			-11.970	-5.131	-4.630	1.00	1.23
ATOM		35	-12.173	-3.385	-4.784	1.00	1.26
		36	-11.115	-5.959	-1.703	1.00	0.89
MOTA	599 CA SER	36	-9.900	-6.722	-1.287	1.00	0.81
ATOM	600 C SER	36	-8.959	-6.897	-2.484		
ATOM	601 O SER					1.00	0.68
ATOM	444	3.6	-7.754	-6.968	-2.334	1.00	0.59
ATOM		36	-10.318	-8.098	-0.765	1.00	0.98
	603 OG SER	36	-9.565	-8.406	0.401	1.00	1.69
ATOM	604 HN SER	36	-12.006	-6.296	-1.471	1.00	
ATOM	605 HA SER	36	-9.388				1.17
ATOM				-6.182	-0-504	1.00	0.77
ATOM		36	-10.138	-8.842	-1.529	1.00	1.34
	607 2HB SER	36	-11.366	-8.088	-0.517	1.00	1.43
MOTA	608 HG SER	36	-9.931	-9.204	0.789		1.97
ATOM	609 N LEU	37				1.00	
ATOM			-9.500	-6.962	-3.669	1.00	0.75
ATOM		37	-8.639	-7.128	-4.873	1.00	0.71
	611 C LEU	37	-7.830	-5.851	-5.100	1.00	0.58
ATOM	612 O LEU	37	-6.627	-5.829	-4.932		
ATOM						1.00	0.48
ATOM	613 CB LEU						
		37	-9.519	-7.400	-6.095	1.00	0.89
	614 CG LEU	37	-9.382	-8.867	-6.095 -6.506	1.00	0.89
ATOM	614 CG LEU 615 CD1 LEU			-8.867	-6.506	1.00	1.19
	614 CG LEU	37	-9.382				

ATOM	617	HN	LEU	37	-10.473	-6.899	3 760		
ATCM	519	HA	LEU	37			-3.768	1.00	0.86
MOTA	619				-7.967	-7.955	-4.723	1.00	0.69
		1HB		37	-9.205	-6.769	-6.913	1.00	1.09
ATOM	620	2HB	LEU	37	-10.550	-7.188	-5.850	1.00	
ATOM	621	HG	LEU	37	-8.749	-9.381			1.05
ATOM	622	1HD1		37	-10.858		-5.797	1.00	1.47
ATOM	623					-10.190	-5.680	1.00	1.91
		2HD1		37	-10.884	-10.084	-7.440	1.00	1.89
ATOM	624	3HD1	LEU	37	-11.526	-8.760	-6.467	1.00	2.22
ATOM	625	1HD2	LEU	37	-7.695	-9.098			
MOTA	626		LEU	37			-7.814	1.00	2.04
ATOM					-8.954	-8.031	-8.436	1.00	2.00
	627	3HD2	LEU	37	-9.197	-9.778	-8.441	1.00	1.94
ATOM	628	N	ASP	38	-8.484	-4.788	-5.481	1.00	0.65
ATOM	629	CA	ASP	38	-7.766	/-3.500	-5.725		
MOTA	630	C	ASP	38	-6.831			1.00	0.59
ATOM	631	ŏ				-3.189	-4.553	1.00	0.44
			ASP	38	-5.759	-2.645	-4.727	1.00	0.41
MOTA	632	CB	ASP	38	-8.788	-2.371	-5.872	1.00	0.69
ATOM	633	CG	λSP	38	-9.146	-2.193	-7.348	1.00	1.07
ATOM	634	OD1	ASP	38	-8.496	-1.395	-8.003	1.00	
ATOM	635		ASP	38	-10.063	-2.859			1.42
ATOM	636	HN	ASP				-7.799	1.00	1.84
ATOM				38	-9.453	-4.837	-5.607	1.00	0.78
	637	HA	ASP	38	-7.188	-3.576	-6.631	1.00	0.63
MOTA	638		ASP	38	-8.367	-1.452	-5.492	1.00	0.71
ATOM	639	2HB	ASP	38	-9.679	-2.618	-5.312	1.00	
ATOM	640	N	VAL	39	-7.233				0.85
ATOM	641	ĊA				-3.531	-3.364	1.00	0.40
			VAL	39	-6.377	-3.258	-2.176	1.00	0.28
ATOM	642	С	VAL	39	-5.035	-3.973	-2.332	1.00	0.23
ATOM	643	0	VAL	39	-4.023	-3.363	-2.622	1.00	0.24
ATOM	644	CB	VAL	39	-7.091	-3.771			
ATOM	645		VAL				-0.925	1.00	0.36
				39	-6.191	-3.593	0.300	1.00	0.35
ATOM	646	CG2	VXL	39	-8.387	-2.982	-0.732	1.00	0.44
MOTA	647	HN	VAL	39	-8.102	-3.968	-3.250	1.00	0.48
ATOM	648	HA	VAL	39	-6.208	-2.197	-2.086		
ATOM	649	HB	VAL	39	-7.324	-4.819		1.00	0.26
ATOM	650						-1.049	1.00	0.43
				39	-5.837	-2.575	0.342	1.00	1.08
ATOM	651			39	-5.347	-4.263	0.226	1.00	1.05
MOTA	652	3HG1	VAL	39	-6.751	-3.817	1.195	1.00	1.09
ATOM	653	1HG2	VAL	39	-8.832	-2.782	-1.695	1.00	
MOTA	654	2HG2	VAL	39	-8.171				1.04
ATOM	655					-2.047	-0.238	1.00	1.11
				39	-9.074	-3.558	-0.131	1.00	1.17
ATOM	656	N	VAL	40	-5.016	-5.259	-2.138	1.00	0.27
ATOM	657	CX	VAL	40	-3.738	-6.006	-2.270	1.00	0.28
ATOM	658	C	VAL	40	-3.217	-5.866	-3.701	1.00	0.34
ATOM	659	0	VAL	40	-2.029				
ATOM	660	CB	VAL	_		-5.932	-3.947	1.00	0.39
				40	-3.967	-7.479	-1.937	1.00	0.33
ATOM	661		VAL	40	-2.616	-8.175	-1.764	1.00	0.39
ATOM	662	CG2	VAL	40	-4.763	-7.582	-0.633	1.00	0.36
ATOM	663	HN	VAL	40	-5.841	-5.731	-1.902	1.00	0.33
ATOM	664	HA	VAL	40	-3.011	-5.593	-1.585		0.29
MOTA	665	HB	VAL	40	-4.517			1.00	
ATOM	666					-7.950	-2.738	1.00	0.37
				40	-2.571	-9.038	-2.410	1.00	1.10
ATOM	667			40	-2.501	-8.487	-0.736	1.00	1.06
ATOM	668			40	-1.822	-7.489	-2.023	1.00	1.10
ATOM	669	1HG2	VAL.	40	-4.781	-6.617	-0.146	1.00	0.94
ATOM	670	0							
ATOM	671		VAL	40	-4.295	-8.304	0.019	1.00	1.11
ATOM				40	-5.773	-7.893	-0.851	1.00	1.14
	672		Gra	41	-4.092	-5.659	-4.648	1.00	0.41
ATOM	673		GLU	41	-3.631	-5.500	-6.055	1.00	0.51
ATOM	674		<b>GL</b> T	41	-2.789	-4.231	-6.151	1.00	0.51
ATOM	675		GLU	41	-1.819	-4.167	-6.880	1.00	0.58
MOTA	676		GLU	41	-4.835	-5.384			
ATOM	677						-6.993	1.00	0.61
ATOM			GLU	41	-5.390		-7.288	1.00	1.01
	678		Gra	41	-5.370	-7.028	-8.798	1.00	1.59
ATOM	679		GLU	41	-6.230	-7.753	-9.270	1.00	2.19
ATOM	680	OE2	GLU	41	-4.495	-6.489	-9.455	1.00	2.21
ATOM	681		GLU	41	-5.047	-5.598	-4.433	1.00	0.44
ATOM	682		GLU	41	-3.097				
ATOM	683				-3.032	-6.352	-6.337	1.00	0.56
ATOM			Cra	41	-4.526	-4.920	-7.917	1.00	0.94
	684		GLU	41	-5.599	-4.781	-6.525	1.00	1.01
ATOM	685	IHG	GLU	41	-6.405	-6.848	-6.927	1.00	1.36
ATOM	686	2HG	GLU	41	-4.780	-7.521	-6.792	1.00	1.61
ATOM	687	N	LEU	42	-3.149				
ATOM	688		LEU	42		-3.219	-5.409	1.00	0.45
ATOM	689				-2.365	-1.956	-5.447	1.00	0.46
ATOM			LEU	42	-1.024	-2.187	-4.737	1.00	0.43
ATOM	690		LEU	42	-0.009	-1.626	-5.098	1.00	0.52
	691		LEU	42	-3.180	-0.825	-4.778	1.00	0.46
ATOM	692		LEU	42	-2.874	-0.710	-3.279	1.00	0.87
ATOM	693	CD1	LEU	42	-1.690	0.235	-3.071	1.00	1.15
							-,		

ATOM	694 CD2 LEU	4.5					
		42	-4.092	-0.147	-2:560	1:00	1.39
ATOM	695 HN LEU	42	-3.930	-3.296	-4.822	1.00	0.43
atcm	696 HA LEU	42	-2.178	-1.691	-6.473	1.00	0.52
ATOM	697 1HB LEU	42	-4.234	-I.027			
ATOM	698 2HB LEU	42			-4.907	1.00	0.85
ATOM			-2.942	0.112	-5.257	1:00	0.83
		42	-2.637	-1.684	-2.880	1.00	1.56
ATOM	700 1HD1 LEU	42	-2.027	1.256	-3:162	1.00	1.75
MCTA	701 2HD1 LEU	42	-0.934	0.040	-3.816	1.00	1.50
MOTA	702 3HD1 LEU	42	-1.274	0.081			
ATOM	703 1HD2 LEU	42			-2.086	1.00	1.69
ATOM	704 2HD2 LEU		-3.938	-0.210	-1.495	1.00	1.86
		42	-4.965	-0.718	-2.835	1.00	1.81
ATOM	705 3HD2 LEU	42	-4.230	0.886	-2.845	1.00	1.85
ATOM	706 N VAL	43	-1.026	-3.011	-3.726	1.00	0.34
ATOM	707 CA VAL	43	0.229	-3.290	-2.979	1.00	0.35
ATOM	708 C VAL	43	1.149	-4.160	-3.844		
ATOM	709 O VAL	43	2.345			1.00	0.41
ATOM	710 CB VAL	43		-4.208	-3.638	1.00	0.46
ATOM	711 CG1 VAL		-0.110	-4.011	-1.669	1.00	0.32
		43	1.073	-3.915	-0.702	1.00	0.36
ATOM	712 CG2 VAL	43	-1.335	-3.350	-1.025	1.00	0.28
ATOM	713 HN VAL	43	-1.861	-3.449	-3.455	1.00	0.30
ATOM	714 HA VAL	43	0.727	-2.357	-2.756	1.00	0.37
MOTA	715 HB VAL	43	-0.326	-5.049	-1.875		
ATOM	716 1HG1 VAL	43	1.436			1.00	0.33
ATOM	717 2HG1 VAL	43		-4.906	-0.477	1.00	1.09
ATOM			0.754	-3.433	0.211	1.00	1.03
		43	1.863	-3.336	-1.156	1.00	1.03
ATOM	719 1HG2 VAL	43	-1.282	-3.460	0.048	1.00	1.02
ATOM	720 2HG2 VAL	43	-2.234	-3.823	-1.392	1.00	1.08
MOTA	721 3HG2 VAL	43	-1.352	-2.300	-1.278		
ATOM	722 N MET	44	0.604	-4.832		1.00	1.03
ATOM	723 CA MET	44			-4.826	1.00	0.49
ATOM			1.459	-5.671	-5.714	1.00	0.57
ATOM		44	2.190	-4.745	-6.681	1.00	0.55
	725 O MET	44.	3.393	-4.811	-6.839	1.00	0.56
ATOM	726 CB MET	44	0.586	-6.657	-6.495	1.00	0.68
ATOM	727 CG MET	44	0.221	-7.839	-5.595	1.00	1.06
MOTA	728 SD MET	44	-0.272	-9.247	-6.619	1.00	
ATOM	729 CE MET	44	1.352				1.46
ATOM	730 HN MET			-9.575	-7.347	1.00	1.81
ATOM		44	-0.359	-4.771	-4.990	1.00	0.55
	731 HA MET	44	2.181	-6.210	-5.119	1.00	0.58
ATOM	732 1HB MET	44	1.130	-7.017	÷7.355	1:00	1.17
MOTA	733 2HB MET	44	-0.316	-6.159	-6.821	1.00	1.16
ATOM	734 1HG MET	44	-0.598	-7.559	-4.949	1.00	1.57
ATOM	735 2HG MET	44	1.076	-8.112			
ATOM	736 1HE MET	44			-4.994	1.00	1:52
ATOM		-	2.110	-9.511	-6:578	1:00	2.32
		44	1.558	-8.846	-8.113	1.00	2.24
ATOM	738 3HE MET	44	1.357	-10.565	-7.783	1.00	2.15
ATOM	739 N GLU	45	1.481	-3.839	-7.294	1.00	0.58
MOTA	740 CA GLU	45	2.154	-2.876	-8.203	1.00	0.59
ATOM	741 C GLU	45	3.160	-2.100	-7.359	1.00	
MOTA	742 O GLU	45	4.171		7.333		0.51
ATOM				-1.625	-7.838	1.00	0.52
ATOM		45	1.123	-1.914	-8.799	1.00	0.67
	744 CG GLU	45	0.611		-10.127	1.00	0.96
ATOM	745 CD GLU	45	0.712	-1.395	-11.207	1.00	1.53
MOTA	746 OEL GLU	45	0.872		-12.362	1.00	2.25
ATOM	747 OE2 GLU	45	0.629	-0.228	-10.861	1.00	2.10
ATOM	748 HN GLU	45	0.525	-3.766	-7.122	1.00	0.63
MOTA	749 HA GLU	45	2.666	-3.408			
ATOM	750 1HB GLU	45			-8.992	1.00	0.64
ATOM	751 2HB GLU		1.583	-0.953	-8.968	1.00	0.84
ATOM	751 285 610	45	0.296	-1.803	-8.112	1.00	0.90
	752 1HG GLU	45	-0.420	-2.775	-10.018	1.00	1.52
ATOM	753 2HG GLU	45	1.209	-3.327	-10.412	1.00	1.38
ATOM	754 N LEU	46	2.885	-1.998	-6.085	1.00	0.49
ATOM	755 CA LEU	46	3.802	-1.295	-5.167	1.00	0.49
ATOM	756 C LEU	46					
ATOM	757 O LEU		5.087	-2.123	-5.049	1.00	0.51
ATOM		46	6.184	-1.602	-5.102	1.00	0.55
ATOM		46	3.094	-1.150	-3.803	1.00	0.53
	759 CG LEU	46	4.097	-0.970	-2.657	1.00	0.73
ATOM	760 CD1 LEU	46	3.689	0.231	-1.809	1.00	1.49
ATOM	761 CD2 LEU	46	4.097	-2.224	-1.783	1.00	0.80
ATOM	762 HN LEU	46	2.070	-2.405	-5.727	1.00	0.51
ATOM	763 HA LEU	46	4.026	-0.325	-5.568	1.00	0.52
ATOM	764 1HB LEU	46	2.502				
ATOM	765 2HB LEU	46		-2.034	-3.619	1.00	0.70
ATOM	766 HG LEU		2.441	-0.291	-3.836	1.00	1.00
ATOM	767 1HD1 LEU	46	5.085	-0.809	-3.058	1.00	1.40
ATOM	768 2HD1 LEU	46	2.900	-0.058	-1.131	1.00	1.92
ATOM		46	3.340	1.025	-2.452	1.00	2.10
ATOM	769 3HD1 LEU	46	4.540	0.573	-1.245	1.00	1.98
ALUM	770 1HD2 LEU	46	3.701	-3.056	-2.347	1.00	1.41

ATOM	771	2HD2 LEU	46	3.483	-2.055	-0.911	1 00	
ATOM	772	3HD2 LEU	46	5.108	-2.448		1.00	1.46
ATCM	773					-1.474	1.00	1.30
	-	N GLU	47	4.953	-3.411	-4.893	1.00	0.52
ATCM	774.	CA GLU	47	6.159	-4.272	-4.774	1.00	0.59
MOTA	775	C GLU	47	7.005				
	776				-4.126	-6.044	1.00	0.63
ATOM		o GLU	47	8.201	-4.333	-6.036	1.00	0.72
MOTA	777 .	CB GLU	47	5.730	-5.737	-4.544	1.00	0.63
ATOM	778	CG GLU	47	5.269	-6.406			
	779					-5.847	1.00	0.80
ATOM		CD GLU	47	6.145	-7.629	-6.129	1.00	1.30
ATOM	780	OE1 GLU	47	6.898	-7.585	-7.088	1.00	1.82
ATOM	781	OE2 GLU	47	6.046	-8.588	-5.383		
ATOM	782	HN GLU	47				1.00	1.94
				4.059	-3.808	-4.855	1.00	0.52
ATOM	783	HA GLU	47	6.742	-3.941	-3.928	1.00	0.62
ATOM	784	1HB GLU	47	4.915	-5.754	-3.836	1.00	
ATOM	785	2HB GLU	47					0.82
	786			6.561	-6.291	-4.139	1.00	1.08
ATOM		1HG GLU	47	5.351	-5.713	-6.665	1.00	1.31
ATOM	787	2HG GLU	47	4.241	-6.717	-5.742	1.00	1.15
ATOM	788	N ASP	48	6.385	-3.762	-7.136		
ATOM	789	CA ASP	48				1.00	0.61
				7.146	-3.595	-8.406	1.00	0.68
MOTA	790	C ASP	48	7.796	-2.208	-8.433	1.00	0.68
ATOM	791	O ASP	48	8.818	-2.005	-9.059	1.00	
ATOM	792	CB ASP	48	6.192	-3.735			0.77
					-3./35	-9.594	1.00	0.71
MOTA	793	CG ASP	48	6.564	-4.978	-10.404	1.00	1.07
ATOM	794	OD1 ASP	48	7.450	-4.875	-11.236	1.00	1.68
ATOM	795	OD2 ASP	48	5.956	-6.011		1.00	
ATOM	796	HN ASP						1.70
			48	5.416	-3.599	-7.119	1.00	0.58
ATOM	797	HA ASP	48	7.913	-4.353	-8.468	1.00	0.72
ATOM	798	THE ASP	48	6.270		-10.223	1.00	0.96
MOTA	799	2HB ASP	48				1.00	
				5.179	-3.830	-9.231	1.00	0.93
MOTA	800	n GLU	49	. 7.213	-1.252	-7.760	1.00	0.62
MOTA	801	CY CLA	49	7.802	0.119	-7.752	1.00	0.64
MOTA	802	C GLU	49	9.142	0.095			0.00
ATOM						-7.021	1.00	0.67
- •	803	O CLU	49	10.146	0.557	-7.526	1.00	0.73
ATOM	804	CB GLU	49	6.854	1.089	-7.036	1.00	0.60
ATOM	805	CG GLU	49	6.170	1.991	-8.065	1.00	0.73
ATOM	806							
			49	5.346	1.135	-9.027	1.00	1.80
atom	807	OE1 GLU	49	4.143	1.059	-8.840	1.00	2.54
ATOM	808	OE2 GLU	49	5.931	0.570	-9.936	1.00	2.46
ATOM	809	HN GLU	49			7 7 7 6 7		
				6.390	-1.435	-7.262	1.00	0.58
ATOM	810	HA GLU	49	7.954	0.449	-8.766	1.00	0.68
ATOM	811	1HB GLU	49	7.418	1.699	-6.345	1.00	0.65
ATOM	812	2HB GLU	49	6.106	0.529	-6.493		0.54
							1.00	
ATOM	813	1HG GLU	49	6.919	2.535	-8.621	1.00	1.00
ATOM	814	2HG GLU	49	5.521	2.689	-7.555	1.00	0.99
ATOM	815	N PHE	50	9.164	-0.432	-5.832	1.00	0.63
ATOM	816	CA PHE	50					
				10.441	-0.479	-5.058	1.00	0.67
MOTA	817	C PHE	50	11.064	-1.877	-5.159	1.00	0.70
ATOM	818	O PHE	50	11.991	-2.201	-4.445	1.00	0.76
MOTA	819	CB PHE	50	10.178	-0.152			
						-3.579	1.00	0.64
MOTA	820	CG PHE	50	9.051	0.851	-3.455	1.00	0.60
ATOM	821	CD1 PHE	50	9.313	2.223	-3.550	1.00	1.31
ATOM	822	CD2 PHE		7.743	0.401	-3.246	1.00	1.23
ATOM	823							
		CE1 PHE		8.264	3.145	-3.434	1.00	1.27
MOTA	824	CE2 PHE	50	6.697	1.322	-3.132	1.00	1.25
ATOM	825	CZ PHE	50	6.954	2.693	-3.224	1.00	0.56
ATOM	826	HN PHE		8.339	-0.793	-5.444	1.00	0.58
ATOM	827							
		HA PHE		11.130	0.247	-5.466	1.00	0.72
ATOM.	828	1HB PHE		11.073	0.261	-3.140	1.00	0.70
ATOM	829	2HB PHE	50	9.908	-1.057	-3.056	1.00	0.63
ATOM	830	HD1 PHE	50					
		NOT PRE	50	10.322	2.571	-3.710	1.00	2.14
MOTA	831	HD2 PHE	50	7.541	-0.657	-3.174	1.00	2.03
ATOM	832	HE1 PHE	50	8.465	4.203	-3.508	1.00	2.08
MOTA	833	HE2 PHE	50	5.691				
ATOM					0.975	-2.971	1.00	2.07
	834	HZ PHE		6.140	3.401	-3.131	1.00	0.57
MOTA	835	N ASP	51	10.567	-2.710	-6.036	1.00	0.72
ATOM	836	CA ASP		11.141	-4.079	-6.167	1.00	0.76
ATOM	837	C ASP						
				11.055	-4.800	-4.820	1.00	0.74
ATOM	838	O ASP		12.001	-4.829	-4.059	1.00	0.80
atom	839	CB ASP	51	12.605	-3.980	-6.601	1.00	0.84
ATOM	840	CG ASP		12.699				
ATOM	841				-4.125	-8.120	1.00	1.18
		OD1 ASP		12.863	-5.243	-8.580	1.00	1.68
ATOM	842	OD2 ASP	51	12.603	-3.116	-8.799	1.00	1.85
ATOM	843	HN ASP		9.819	-2.438	-6.606	1.00	0.74
ATOM	844	HA ASP						
ATOM	845			10.584	-4.633	-6.908	1.00	0.78
		1HB ASP		13.174	-4.767	-6.130	1.00	0.97
ATOM	8.4.6	2HB ASP	51	13.004	-3.020			1.23
ATOM	847	N MET		9.926	-5.381		1.00	0.75
								V

	548 CA MET	6.3				
ATCM	343 CA MET	52 <b>52</b>	9.775 -6.100	-3.224	1.00	0.77
ATOM	350 O MET	52 52	9.189 -7.490	-3.477	1.00	0.81
ATOM	351 CB MET	52 52	8.891 -7.855	-4.597	1.00	0.96
ATCM	852 CG MET	52	8.836 -5.310	-2.311	1.00	0.79
ATOM	853 SD MET	52	9.638 -4.687	-1.164	1.00	0.87
ATOM	954 CE MET	52	9.104 -5.399	0.412	1.00	1.42
ATOM	855 HN MET	52	7.774 -4.220	0.750	1.00	0.79
ATOM	856 HA MET	52	9.175 -5.344	-5.150		0.82
ATOM	857 1HB MET	52	10.742 -6.196	-2.752	1.00	0.83
ATOM	858 2HB MET	52	8.086 -5.974	-1.907	1.00	1.31
ATOM	859 1HG MET	52	8.355 -4.528	-2.881		1.31
ATOM	860 2HG MET	52	9.473 -3.620	-1.150	1.00	1.43
ATOM	861 THE MET	52	10.689 -4.887 7.413 -3.809	-1.310	1.00	1.41
ATOM	862 2HE MET	52		-0.183	1.00	1.28
ATOM	863 3HE MET	52	8.147 -3.422 6.968 -4.726	1.371		1.42
ATOM	864 N GLU	53	9.019 -8.269	1.264		1.29
ATOM	865 CA GLU	53	8.449 -9.634	-2.444		0.83
ATOM	866 C GLU	53	7.073 -9.701	-2.625		0.88
MOTA	867 O GLU	53	6.675 -10.722	-1.959 -1.434		0.75
MOTA	868 CB GLU	53	9.379 -10.664	-1.981		1.16
ATOM	869 CG GLU	53	10.817 -10.410	-2.437		1.11
ATOM	870 CD GLU	53	11.667 -11.653	-2.170		1.59
ATOM	871 OE1 GLU	53	12.056 -11.847	-1.030		2.23 2.86
ATOM	872 OE2 GLU	53	11.914 -12.391	-3.110	1.00	2.66
ATOM	873 HN GLU	53	9.264 -7.956	-1.548		2.00 0.90
ATOM ATOM	874 HA GLU 875 1HB GLU	53	8.350 -9.846	-3.679		0.99
ATOM		53	9.079 -11.657	-2.280		1.43
ATOM		53	9.321 -10.578	-0.905		1.51
ATOM		53	11.225 -9.573	-1.891		1.92
ATOM		53	10.824 -10.188	-3.495		2.01
ATOM		54	6.344 -8.619	-1.976		0.66
ATOM	880 CA ILE	54	4.995 -8.618	-1.343		0.55
ATOM	882 O ILE	54 54	4.059 -9.539	-2.125		0.67
ATOM	883 CB ILE	54	3.737 -9.286	-3.269	1.00	1.56
ATOM	884 CG1 ILE	54	4.431 -7.197 5.379 -6.267	-1.356		0.50
MOTA	885 CG2 ILE	54		-0.599		0.56
ATOM	886 CD1 ILE	54	3.056 -7.179 4.865 -4.831	-0.683		0.60
ATOM	887 HN ILE	54	6.684 -7.806	-0.698		0.63
ATOM	888 HA ILE	54	5.074 -8.965	-2.404 -0.324		1.02
ATOM	889 HB ILE	54	4.333 -6.861	-2.376		0.62
ATOM	890 1HG1 ILE	54	6.365 -6.325	-1.035		0.59
ATOM	891 2HG1 ILE	54	5.424 -6.565	0.439		0.66 0.67
ATOM	892 1HG2 ILE	54	3.170 -6.927	0.361		1.07
ATOM	893 2HG2 ILE	54	2.598 -8.153	-0.771		1.34
ATOM ATOM	894 3HG2 ILE	54	2.430 -6.443	-1.165		.14
ATOM	895 1HD1 ILE	54	4.877 -4.517	-1.731		.19
ATOM	896 2HD1 ILE 897 3HD1 TLE	54	5.499 -4.179	-0.116		.07
ATOM		54	3.855 -4.783	-0.319		.27
ATOM		55	3.612 -10.601	-1.516		.75
ATOM		55	2.690 -11.530	-2.223		.77
ATOM	900 C SER 901 O SER	55	1.252 -11.225	-1.801	1.00	.82
ATOM	902 CB SER	55 55	1.012 -10.432	-0.913		54
ATOM	903 OG SER	55	3.037 -12.974 3.508 -13.649	-1.859		.90
MOTA	904 HN SER	55		-3.019		56
ATOM	905 HA SER	55	3.878 -10.784 2.789 -11.393	-0.590		.43
ATOM	906 1HB SER	55	2.155 -13.470	-3.290 -1.475		.80
ATOM	907 2HB SER	55	3.807 -12.983	-1.106		37
ATOM	908 HG SER	55	4.169 -14.288	-2.742		08
ATOM	909 N ASP	56	0.292 -11.846	-2.428		.79
ATOM	910 CA ASP	56	-1.127 -11.584	-2.058		.77
ATOM	911 C ASP	56	-1.325 -11.844	-0.563		.73
atom Atom	912 O ASP	56	-2.253 -11.349	0.043		.00
ATOM	913 CB ASP 914 CG ASP	56	-2.043 -12.510	-2.861		.90
ATOM		56	-2.969 -11.672	-3.745		.56
ATOM		56	-3.948 -11.161	-3.227		.33
ATOM	916 OD2 ASP 917 HN ASP	56	-2.682 -11.555	-4.926		.15
ATOM	918 HA ASP	56	0.504 -12.482	-3.143		.31
ATOM	919 1HB ASP	56 56	-1.372 -10.556	-2.279	1.00 0	. 69
ATOM	920 2HB ASP	56 56	-2.637 -13.105	-2.184		.33
MOTA	921 N GLU	50 57	-1.443 -13.160	-3.481	1.00 1	.28
MOTA	922 CA GLU	.57	-0.462 -12.618 -0.607 -12.907	0.038		.66
MOTA	923 C GLU	57	-0.007 -12.907	1.492		.70
ATOM	924 O GLU	57	-0.450 -11.548	2.310		.59
				3.460	1.00 0	.65

ATOM	925	C3 GLU	57	0 205 14 151			
ATOM	926			0.205 -14.154	1.946	1.90	0.82
			57	1.654 -13.966	1.392	1.00	0.74
ATOM	927	CD GLU	57	2.541 -15.013	2.066	1.00	1.01
ATOM	928	OE1 GLU	57	3.487 -14.621	2.730	1.00	1.45
ATOM	929	OE2 GLU	57	2.260 -16.190	1.907	1.00	1.65
ATOM	930	HN GLU	57	0.280 -13.011	-0.467		
ATOM	931	HA GLU	57			1.00	0.78
ATOM	932		57		1.721	1.00	0.79
		1HB GLU		-0.218 -15.013	1.348	1.00	1.04
ATOM	933	2HB GLU	57	0.179 -14.308	2.916	1.00	1.02
MOTA	934	1HG GLU	57	1.993 -12.978	1.667	1.00	0.91
ATOM	935	2HG GLU	57	1.711 -14.080	0.319	1.00	
ATOM	936	N ASP	58	0.735 -10.894			0.91
ATOM	937	CA ASP	58		1.732	1.00	0.48
ATOM ·	938		58		2.486	1.00	0.43
				0.157 -8.688	2.683	1.00	0.40
ATOM	939	O ASP	58	-0.414 -8.577	3.744	1.00	0.45
ATOM	940	CB ASP	58	2.422 -9.090	1.708	1.00	0.42
ATOM	941	CG ASP	58	3.751 -9.511	2.338	1.00	0.79
ATOM	942	OD1 ASP	58	3.790 -10.573	2.936	1.00	1.45
ATOM	943	OD2 ASP	58	4.706 -8.762			
ATOM	944	HN ASP	58		2.213	1.00	1.46
ATOM	945			1.013 -11.047	0.805	1.00	0.51
		HA ASP	58	1.622 -10.050	3.450	1.00	0.48
MOTA	946	1HB ASP	58	2.335 -8.015	1.742	1.00	0.63
MOTA	947	2HB ASP	58	2.389 -9.423	0.681	1.00	0.57
MOTA	948	n ala	59	-0.149 -7.932	1.665	1.00	0.41
ATOM	949	CA ALA	59	-1.221 -6.889	1.775	1.00	0.43
ATOM	950	C ALA	59	-2.458 -7.440	2.503		
ATOM	951	O ALA	59			1.00	0.49
ATOM	952				3.082	1.00	0.53
		CB ALA	59	-1.624 -6.444	0.370	1.00	0.54
ATOM	953	HN ALA	59	0.331 -8.046	0.820	1.00	0.47
ATOM	954	HA ALA	59	-0.840 -6.034	2.318	1.00	0.42
ATOM	955	1HB ALA	59	-0.987 -6.927	-0.357	1.00	1.28
ATOM	956	2HB ALA	59	-1.516 -5.375	0.288	1.00	1.06
ATOM	957	3HB ALA	59	-2.651 -6.718	0.186	1.00	
ATOM	958	N GLU	60				1.14
ATOM	959				2.471	1.00	0.55
			60	-3.868 -9.300	3.154	1.00	0.68
ATOM	960	C Gra	60	-3.558 -9.603	4.624	1.00	0.70
ATOM	961	o glu	60	-4.322 -9.271	5.508	1.00	0.80
ATOM	962	CB GLU	60	-4.285 -10.591	2.448	1.00	0.79
MOTA	963	ca era	60	-5.768 -10.515	2.079	1.00	1.03
ATOM	964	CD GLU	60	-6.450 -11.838	2.431	1.00	1.32
ATOM	965	OE1 GLU	60				
ATOM	966				2.349	1.00	1.83
			60	-7.620 -11.806	2.776	1.00	1.97
ATOM	967	HN GLU	60	-2.053 -9.317	1.991	1.00	0.54
MOTA	968	HA GLU	60	-4.676 -8.591	3.103	1.00	0.75
ATOM	969	1HB GLU	60	-4.122 -11.431	3.106	1.00	1.01
ATOM	970	2HB GLU	60	-3.697 -10.716	1.551	1.00	0.99
ATOM	971	1HG GLU	60	-5.867 -10.332	1.020	1.00	1.37
ATOM	972	2HG GLU	60	-6.235 -9.711			
ATOM	973				2.629	1.00	1.60
			61	-2.455 -10.243	4.893	1.00	0.65
ATOM	974	CA LYS	61	-2.114 -10.580	6.309	1.00	0.73
ATOM	975	C LYS	61	-1.365 -9.417	6.968	1.00	0.70
ATOM	976	O LYS	61	-1.291 -9.322	8.177	1.00	0.97
ATOM	977	CB LYS	61	-1.230 -11.828	6.336	1.00	0.81
ATOM	978	CG LYS	61	-1.407 -12.548	7.674	1.00	1.30
ATOM	979	CD LYS	61	-1.016 -14.018	7.519	1.00	1.75
ATOM	980	CE LYS	61	0.509 -14.139	7.498		
ATOM	981	NZ LYS				1.00	2.14
			61	0.913 -15.427	8.131	1.00	2.62
ATOM	982	HN LYS	61	-1.859 -10.512	4.166	1.00	0.59
ATOM	983	HA LYS	61	-3.023 -10.776	6.858	1.00	0.85
MOTA	984	1HB LYS	61	-0.197 -11.540	6.218	1.00	1.08
ATOM	985	2HB LYS	61	-1.515 -12.488	5.530	1.00	1.02
ATOM	986	1HG LYS	61	-2.439 -12.483	7.984	1.00	1.80
ATOM	987	2HG LYS	61	-0.777 -12.083	8.419	1.00	1.76
ATOM	988	1HD LYS	61	-1.418 -14.402	6.594	1.00	2.22
ATOM	989	2HD LYS	61		0.374		2 . 44
ATOM	990			-1.412 -14.585	8.348	1.00	2.08
ATOM		1HE LYS	61	0.943 -13.316	8.047	1.00	2.32
	991	2HE LYS	61	0.858 -14.115	6.477	1.00	2.47
ATOM	992	1HZ LYS	61	1.131 -15.267	9.134	1.00	2.92
ATOM	993	2HZ LYS	61	1.755 -15.800	7.647	1.00	2.99
MOTA	994	3HZ LYS	61	0.135 -16.111	8.053	1.00	2.94
ATOM	995	N ILE	62	-0.806 -8.537	6.187	1.00	0.57
ATOM	996	CA ILE	62	-0.058 -7.386	6.767	1.00	0.54
ATOM	997	C ILE	62		7.761	1.00	0.59
ATOM	998	O ILE		-0.962 -6.642			
ATOM	999		62	-2.163 -6.577	7.587	1.00	1.32
ATOM			62	0.397 -6.458	5.621	1.00	0.46
	1000	CG1 ILE	62	1.569 -5.596	6.093	1.00	0.56
MOTA	1001	CG2 ILE	62	-0.751 -5.549	5.150	1.00	0.67

MOTA	1002	CD1	ILE	62	2 120	4 210			
ATOM	1003	HN	ILE	62	2.130 -0.873	-4.818 -8.633	4.903	1.00	0.60
ATCM	1004	HA	ILE	62	0.811	-7.758	5.215 7.291	1.00	0.68
MOTA	1005	HB	ILE	62	0.723	-7.065	4.790	1.00	0.62 0.51
ATCM	1006	1HG1	ILE.	62	2.343	-6.230	6.500	1.00	0.74
ATOM	1007	2HG1	ILE	62	1.230	-4.906	6.850	1.00	0.90
ATOM ATOM	1008 1009	1HG2	ILE	62	-0.534	-5.178	4.159	1.00	1.33
ATOM	1010	2HG2 3HG2	ILE	62 62	-0.854	-4.716	5.830	1.00	1.12
ATOM	1011	1HD1	ILE	62	-1.672	-6.112	5.129	1.00	1.31
ATOM	1012	2HD1	ILE	62	2.337 3.042	-5.500 -4.318	4.091 5.195	1.00	1.15
MOTA	1013	3HD1	ILE	62	1.405	-4.085	4.580	1.00	1.18
ATOM	1014	N	ALA	63	-0.397	-6.086	8.801	1.00	0.80
ATOM ATOM	1015	CA	XLX	63	-1.231	-5.352	9.802	1.00	0.75
ATOM	1016 1017	. C	ALA	63	-2.146	-4.363	9.078	1.00	0.75
ATOM	1018	CB	YEA YEA	63 63	-3.285 -0.318	-4.165	9.451	1.00	1.33
ATOM	1019	HN	ALA	63	0.572	-4.593 -6.151	10.767 8.926	1.00	0.77
ATOM	1020	HA	ALA	63	-1.831	-6,058	10.355	1.00	1.44
MOTA	1021		<b>ALA</b>	63	0.683	-4.995	10.708	1.00	1.10
ATOM ATOM	1022		ALA	63	-0.690	-4.701	11.775	1.00	1.34
ATOM	1023 1024	N	ALA	63	-0.302	-3.546	10.500	1.00	1.30
ATOM	1025	Ċλ	THR	64 64	-1.652 -2.473	-3.754 -2.782	8.037	1.00	0.54
ATOM	1026	C	THR	64	-1.699	-2.346	7.264 6.020	1.00	0.48
ATOM	1027	0	THR	64	-0.488	-2.449	5.960	1.00	0.42
ATOM	1028	CB	THR	64	-2.769	-1.550	8.126	1.00	0.56
ATOM ATOM	1029 1030	OG1 CG2		64	-1.747	-1.400	9.102	1.00	0.63
ATOM	1031	HN	THR	64 64	-4.118	-1.726	8.820	1.00	0.61
ATOM	1032	HA	THR	64	-0.737 -3.401	-3.943 -3.247	7.758 6.968	1.00	0.91
ATOM	1033	HB	THR	64	-2.804	-0.666	7.500	1.00	0.48
ATOM	1034	HG1	THR	64	-1.163	-0.695	8.815	1.00	1.07
ATOM	1035	1162	THR	64	-4.683	-2.494	8.315	1.00	1.12
ATOM ATOM	1036 1037	2HG2 3HG2	THR	64	-4.663	-0.795	8.788	1.00	1.18
ATOM	1038	N	VAL	64 65	-3.957 -2.390	-2.014	9.848	1.00	1.16
ATOM	1039	ĊA	VAL	65	-1.712	-1.839 -1.363	5.034 3.791	1.00	0.36
ATOM	1040	C	VAL	65	-0.527	-0.472	4.188	1.00	0.36
ATOM	1041	0	VAL	65	0.546	-0.542	3.619	1.00	0.38
ATOM ATOM	1042	CB	VAL	65	-2.731	-0.558	2.979	1.00	0.30
ATOM	1043	CG1	VAL	65 65	-2.031	0.276	1.901	1.00	0.37
ATOM	1045	HN	VAL	65	-3.717 -3.363	-1.523 -1.754	2.315 5.118	1.00	0.27
ATOM	1046	HA	VAL	65	-1.366	-2.207	3.208	1.00	0.37
ATOM	1047	HB	VXL	65	-3.265	0.098	3.647	1.00	0.37
ATOM	1048	1HG1		65	-0.997	-0.026	1.829	1.00	0.93
ATOM ATOM	1049 1050	2HG1 3HG1		65	-2.084	1.321	2.168	1.00	1.10
ATOM	1051	1HG2		65 65	-2.520	0.120	0.952	1.00	1.05
ATOM		2HG2		65	-4.569 -3.230	-1.669 -2.472	2.962 2.142	1.00	0.98
MOTA	1053	3HG2		65	-4.046	-1.111	1.373	1.00	1.06
MOTA	1054	N	GLY	66	-0.722	0.356	5.177	1.00	0.41
ATOM ATOM	1055 1056	CX	GLY	66	0.379	1.244	5.634	1.00	0.48
ATOM	1057	CO	GLY GLY	66 66	1.573	0.381	6.023	1.00	0.48
ATOM	1058	HN	GLY	66	2.693 -1.593	0.644 0.384	5.633 5.624	1.00	0.50
MOTA	1059		GLY	66	0.056	1.812	6.489	1.00	0.52
ATOM	1060		GLY	66	0.659	1.914	4.834	1.00	0.49
MOTA MOTA	1061 1062	N CA	ASP	67	1.342	-0.670	6.771	1.00	0.48
ATOM	1063	Č	ASP ASP	67 67	2.471	-1.565	7.156	1.00	0.50
ATOM	1064	ŏ	ASP	67	3.198 4.399	-1.973 -2.154	5.878 5.858	1.00	0.47
ATOM	1065	CB	ASP	67	1.930	-2.806	7.866	1.00	0.51
ATOM	1066	CG	ASP	67	1.976	-2.588	9.380	1.00	1.01
ATOM ATOM	1067 1068	ODI	ASP	67	2.765	-3.253	10.031	1.00	1.56
ATOM	1069	HN	ASP ASP	67 67	1.222	-1.760	9.863	1.00	1.78
ATOM	1070	HA	ASP	67	0.429 3.150	-0.877 -1.034	7.061 7.808	1.00	0.48
ATOM	1071	1HB	λSP	67	2.536	-3.662	7.609	1.00	0.55
ATOM	1072		ASP	67	0.911	-2.980	7.557	1.00	0.81
ATOM ATOM	1073 1074	N CA	ALA	68	2.469	-2.080	4.799	1.00	0.42
ATOM	1075	CX	ALA ALA	68 68	3.108	-2.431	3.504	1.00	0.41
MOTA	1076	ŏ	ALA	68	4.102 5.221	-1.322 -1.563	3.182 2.769	1.00	0.45
MOTA	1077	CB	ALA	68	2.041	-2.512	2.409	1.00	0.37
MOTA	1078	HN	ALA	68	1.504	-1.901	4.839	1.00	0.40

\ TOY	1070	•••							
ATOM	1079	HA	ALA	68	3.624	-3.374	3.592	1.00	0.42
ATCM	1080		ALA	68	1.120	-2.890	2.830	1.00	1.08
ATOM	1081	2HB	ALA	68	2.377	-3.177	1.627	1.00	1.05
ATOM	1082		ALA	68	1.870	-1.528	1.997	1.00	1.11
MOLY	1083	N	VAL	69	3.703	-0.101	3.412	1.00	0.45
ATOM	1084	CA	VAL	69	4.620	1.040	3.169	1.00	0.50
ATOM	1085	С	VAL	69	5.814	0.870	4.119	1.00	0.56
MOTA	1086	0	VAL	69	6.964	0.971	3.730	1.00	
ATOM	1087	CB	VAL	69	3.841	2.363	3.403	1.00	0.62
MOTA	1088	CG1	VAL	69	4.347	3.137	4.631		0.51
ATOM	1089	CG2	VAL	69	3.978	3.247	2.162	1.00	0.55
ATOM	1090	HN	VAL	69	2.805	0.058	3.773	1.00	0.56
ATOM	1091	HA	VAL	69	4.970	1.003	2.151	1.00	0.43
ATOM	1092	HB	VAL	69	2.796	2.128		1.00	0.51
ATOM	1093	1HG1		69	5.393	3.370	3.548	1.00	0.51
ATOM		2HG1		69	4.218		4.503	1.00	1.25
ATOM		3HG1		69	3.783	2.531 4.052	5.516	1.00	0.95
MOTA	1096	1HG2		69	4.964		4.736	1.00	1.18
MOTA	1097		VAL	69	3.234	3.687	2.139	1.00	1.18
ATOM	1098	3HG2		69		4.029	2.194	1.00	1.18
ATOM	1099	N	ASN	70	3.829	2.648	1.277	1.00	1.13
ATOM	1100	CA	ASN	70 70	5.534	0.571	5.358	1.00	0.57
ATOM	1101			-	6.629	0.347	6.338	1.00	0.64
ATOM	1102	C	ASN	70	7.446	-0.857	5.866	1.00	0.64
ATOM	1103		ASN	70	8.623	-0.978	6.145	1.00	0.71
ATOM		CB	ASN	70	6.031	0.053	7.716	1.00	0.67
ATOM	1104	CG	ASN	70	6.539	1.086	8.723	1.00	1.01
	1105		ASN	70	5.774	1.617	9.504	1.00	1.73
ATOM	1106		ASN	70	7.806	1.396	8.738	1.00	1.38
MOTA	1107	HN	ASN	70	4.600	0.468	5.635	1.00	0.56
ATOM	1108	HA	ASN	70	7.257	1.221	6.392	1.00	0.68
ATOM	1109		ASN	70	6.330	-0.934	8.035	1.00	0.87
ATOM	1110		ASN	70	4.953	0.103	7.659	1.00	0.85
ATOM	1111	1HD2	ASN	70	8.423	0.967	8.108	1.00	1.81
MOTA	1112	2HD2		70	8.142	2.057	9.379	1.00	1.67
ATOM	1113	N	TYR	71	6.818	-1.747	5.141	1.00	0.60
ATOM	1114	CX	TYR	71	7.529	-2.950	4.629	1.00	0.62
ATOM	1115	Ç	TYR	71	8.618	-2.519	3.646	1.00	0.66
ATOM	1116	0_	TYR	71	9.677	-3.110	3.577	1.00	0.74
ATOM	1117	CB	TYR	· 71	6.523	-3.851	3.906	1.00	0.59
ATOM	1118	CG	TYR	71	6.898	-5.299	4.100	1.00	0.61
ATOM	1119	CD1		71	8.096	-5.789	3.568	1.00	1.36
MOTA	1120	CD2	TYR	71	6.046	-6.153	4.811	1.00	1.33
MOTA	1121	CE1	TYR	71	8.443	-7.133	3.747	1.00	1.39
MOTA	1122	CE2	TYR	71	6.393	-7.497	4.990	1.00	1.38
MOTA	1123	CZ	TYR	71	7.592	-7.987	4.459	1.00	0.77
ATOM	1124	OH	TYR	71	7.934	-9.313	4.636	1.00	0.90
ATOM	1125	HN	TYR	71	5.870	-1.621	4.930	1.00	0.57
ATOM	1126	HA	TYR	71	7.973	-3.488	5.451	1.00	0.65
ATOM	1127	1HB	TYR	71	6.526	-3.618	2.851	1.00	0.61
MOTA	1128	2HB	TYR	71	5.535	-3.680	4.307	1.00	0.60
MOTA	1129	HD1	TYR	71	8.751	-5.130	3.018	1.00	2.21
ATOM	1130	HD2	TYR	71	5.120	-5.774	5.219	1.00	2.16
ATOM	1131	HE1	TYR	71	9.368	-7.512	3.337	1.00	2.24
MOTA	1132		TYR	71	5.736	-8.156	5.539	1.00	2.23
MOTA	1133	HH	TYR	71	8.247	-9.653	3.794	1.00	0.96
ATOM	1134	N	ILE	72	8.361	-1.496	2.878	1.00	0.64
ATOM	1135	CA	ILE	72	9.378	-1.030	1.889	1.00	0.70
ATOM	1136	C	ILE	72	10.536	-0.355	2.617	1.00	0.77
MOTA	1137	0	ILE	72	11.691	-0.567	2.304	1.00	0.86
MOTA	1138	CB	ILE	72	8.753	-0.013	0.930	1.00	0.67
ATOM	1139		ILE	72	7.417	-0.533	0.403	1.00	0.65
ATOM	1140		ILE	72	9.699	0.228	-0.249	1.00	0.76
ATOM	1141		ILE	72	6.447	0.637	0.268	1.00	0.63
ATOM	1142	HN	ILE	72	7.496	-1.039	2.947	1.00	0.61
ATOM	1143	HA	ILE	72	9.746	-1.875	1.329	1.00	0.74
ATOM	1144	HB	ILE	72	8.594	0.919	1.454	1.00	0.65
ATOM	1145	1HG1		72	7.010	-1.257	1.089	1.00	0.81
ATOM	1146	2HG1	ILE	72	7.566	-0.991	-0.563	1.00	0.80
ATOM	1147	1HG2	ILE	72	10.596	0.714	0.104	1.00	1.22
ATOM		2HG2	ILE	72	9.211	0.859	-0.978	1.00	1.24
ATOM	1149			72	9.954	-0.716	-0.705	1.00	1.38
ATOM	1150	1HD1		72	5.439	0.287	0.424	1.00	1.17
ATOM		2HD1	ILE	72	6.533	1.065	-0.720	1.00	1.24
ATOM	1152	3HD1	ILE	72	6.686	1.389	1.007	1.00	1.22
ATOM	1153	N	GLN	73	10.235	0.467	3.579	1.00	0.76
ATOM	1154	CA	GLN	73	11.332	1.171	4.317	1.00	0.85
MOTA	1155	C	GLN	73	12.217	0.129	5.002	1.00	0.92

ATCM	1156 O GLN	73	13.399	0 333	E 103		
				0.333	5.193	1.00	1.03
MCTA	1157 CB GLN		10.789	2.142	5.389	1.00	0.88
ATOM	1158 CG GLN	73	9.338	2.558	5.107	1.00	1.08
ATOM	1159 CD GLN	73	9.185	3.028	3.659	1.00	1.11
ATOM	1160 OE1 GLN	_ 7	10.158	3.203			
ATOM					2.953	1.00	2.07
			7.986	3.238	3.187	1.00	0.83
ATOM	1162 HN GLN		9.295	0.622	3.803	1.00	0.71
MOTA	1163 HA GLN	73	11.931	1.725	3.608	1.00	0.89
ATOM	1164 1HB GLN	73	11.411	3.025	5.409	1.00	1.16
ATOM	1165 2HB GLN		10.833	1.661	6.354		
ATOM	1166 1HG GLN					1.00	1.09
			9.061	3.362	5.773	1.00	1.61
ATOM	1167 2KG GLN		8.690	1.715	5.276	1.00	1.71
ATOM	1168 1HE2 GLN	73	7.203	3.095	3.760	1.00	1.17
MOTA	1169 2HE2 GLN	73	7.866	3.535	2.264	1.00	1.07
ATOM	1170 N ASN	74	11.654	-0.988	5.374	1.00	0.90
ATOM	1171 CA ASN		12.463	-2.044	6.046		1.01
ATOM	1172 C ASN			2 7 2 7 2		1.00	
ATOM			13.479	-2.616	5.054	1.00	1.06
			14.494	-3.163	5.438	1.00	1.18
MOTA	1174 CB ASN		11.540	-3.162	6.533	1.00	1.08
ATOM	1175 CG ASN	74	11.703	-3.336	8.044	1.00	1.31
MOTA	1176 OD1 ASN	74	11.348	-2.462	8.810	1.00	1.90
ATOM	1177 ND2 ASN		12.230				
ATOM				-4.436	8.509	1.00	1.80
	1178 HN ASN		10.698	-1.133	5.211	1.00	0.85
ATOM	1179 HA ASN		12.985	-1.615	6.888	1.00	1.07
ATOM	1180 1HB ASN	74	11.799	-4.085	6.037	1.00	1.21
ATOM	1181 2HB ASN	74	10.515	-2.906	6.308	1.00	1.26
ATOM	1182 1HD2 ASN		12.517	-5.141	7.892	1.00	2.30
ATOM	1183 2HD2 ASN						
			12.338	-4.556	9.476	1.00	2.08
ATOM	1184 N GLN		13.216	-2.493	3.782	1.00	1.08
MOTA	1185 CA GLA		14.169	-3.029	2.771	1.00	1.22
ATOM	1186 C GL	i 75	15.182	-1.943	2.404	1.00	1.23
ATOM	1187 O GLA	75	16.286	-2.226	1.984	1.00	1.40
ATOM	1188 CB GL		13.399	-3.456	1.520		
ATOM			13.377			1.00	1.31
			12.566	-4.700	1.835	1.00	1.54
ATOM	1190 CD GL		13.222	-5.927	1.200	1.00	1.98
ATOM	1191 OE1 GL	i 75	13.372	-6.949	1.839	1.00	2.43
ATOM	1192 NE2 GL	t 75	13.622	-5.869	-0.041	1.00	2.55
ATOM	1193 HN GL		12.393	-2.048	3.491	1.00	1.09
ATOM	1194 HA GL		14.689	-3.881			
ATOM					3.183	1.00	1.35
	1195 1HB GL		14.097	-3.684	0.728	1.00	1.65
ATOM	1196 2HB GL		12.747	-2.654	1.207	1.00	1.73
ATOM	1197 1HG GL		11.571	-4.578	1.435	1.00	1.95
ATOM	1198 2HG GL	75	12.511	-4.834	2.906	1.00	1.75
ATOM	1199 1HE2 GL		13.500	-5.044	-0.557	1.00	2.92
ATOM	1200 2HE2 GL		14.042	-6.650		1.00	
ATOM	1201 N GL				-0.457		2.94
			14.815	-0.700	2.563	1.00	1.14
ATOM	1202 CA GL		15.757	0.403	2.227	1.00	1.25
ATOM	1203 C GL	<b>v</b> 76	16.763	0.577	3.366	1.00	1.67
ATOM	1204 O GL	K 76	16.522	0.032	4.431	1.00	2.01
ATOM	1205 CB GL	T 76	14.974	1.704	2.037	1.00	1.23
MOTA	1206 CG GL		14.091	1.590	0.793	1.00	1.15
ATOM							
			14.345	2.786	-0.126	1.00	1.58
ATOM	1208 OE1 GL		14.865	3.797	0.304	1.00	2.23
ATOM	1209 NE2 GL		14.000	2.713	-1.382	1.00	1.97
MOTA	1210 OXT GL	N 76	17.757	1.252	3.155	1.00	2.36
ATOM	1211 HN GL		13.919	-0.494	2.905	1.00	1.10
ATOM	1212 HA GL		16.283	0.163	1.315	1.00	1.55
ATOM	1213 1HB GL			2.525			
ATOM	1214 2HB GL		15.664		1.912	1.00	1.74
			14.355	1.881	2.905	1.00	1.68
ATOM	1215 1HG GL		13.052	1.580	1.088	1.00	1.43
ATOM	1216 2HG GL		14.326	0.675	0.269	1.00	1.35
ATOM	1217 1HE2 GL	N 76	13.582	1.897	-1.728	1.00	2.28
ATOM	1218 2HE2 GL	N 76	14.159	3.474	-1.979	1.00	2.36
END				3.4.4	- 2.313	2.00	